

PRIMARY CARE ACCESS DATA REPORT

ASSESSING NEW HAMPSHIRE'S COMMUNITIES

FOURTH EDITION, 1993-1997

Analyses of Primary Care Access Data at the Statewide and Hospital Service Area Levels

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EXECUTIVE SUMMARY

New Hampshire has consistently been ranked among the healthiest states in the nation by both ReliaStar and the Morgan Quitno Corporation since the inception of these surveys in the early 1990's. While this healthy state designation may be true when observing the state as a whole, the information contained in this report provides a more detailed presentation on the variability of health in the state. It may be observed that while some demographic groups or geographic areas maintain a healthy status when measuring a particular health indicator, others do not fare as well, thus indicating a potential public health problem and the need for services and assistance to enhance the access to primary care.

This report, titled the Primary Care Access Data Report (PCAD Report), presents the foundation for a statistical health needs assessment of New Hampshire's communities. It is based on the premise that a complete assessment of community needs begins with a dissection of health indicators, such as death rates and utilization rates by time, space and by their major demographic determinants: age and gender. It is hoped that this report will help communities to describe their own problems and successes, to define the issues, and to make sense of the information regarding health status and health utilization available from the New Hampshire Department of Health and Human Services (DHHS). Communities and their constituents must become skilled consumers of health-related data, in order to make informed decisions and to address community health problems at the local level.

This fourth edition of the PCAD report, similar to the original Primary Care Access Plan, has been developed for use by planners and service providers at both the state and local level. The breadth of this report is sufficient enough in scope to permit the development of specific public health plans, whether they are focused towards specific groups, specific health needs, or specific communities.

Many interesting observations and comparisons can be made by using the information contained within this report. Some examples are presented below:

- Maternal smoking declined from 18.4% to 16.4% through 1996, before increasing to 17.4% in 1997.
- Births to adolescents, which represent the group with the highest pregnancy related risks, increased nearly 12% in the last 5 years, while birth rates in all other ages have declined.
- Male-dominated motor vehicle accident and intentional deaths (mostly suicides by firearms) combined, are responsible for nearly 7 out of 10 deaths among males and females between the ages of 15-24.
- In all age groups, firearms cause more than half of all intentional injury deaths, culminating with more than 80% occurring among senior males between the ages of 65-74.
- Lung cancer, which was once a male-dominated disease, has now become a female-dominated cancer in the 25 to 45 age group. The incidence rate for lung cancer is 30.4% higher among females, as compared to the male rate.

- The mortality rate for lung cancer in the 25 to 45 age group is 12.5% higher among females, as compared to the mortality rate among males.
- Breast and cervical cancer incidence rates appear to be decreasing over time in the 25-44 year old group, and breast cancer mortality has been declining among women age 45 and over.
- In men between the ages of 45-64, the prostate cancer incidence rate has been increasing over time, possibly due to advances in screening for this disease.

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INTRODUCTION

In January 1993, the New Hampshire Department of Health and Human Services published the first version of the Primary Care Access Plan. The second version, published in 1995, and the third version, published in 1997, followed a revised format and were data-based assessments of primary care needs in the state. Similar to the 1997 edition, this fourth version utilizes information obtained from multiple databases related to health status, and health care utilization. However, analyses related to health behaviors and barriers to care as well as comparisons by socioeconomic status have been deleted. The current format was adopted through discussions with external stakeholders and members of the public and contains some format changes from earlier versions. It provides an updated data analysis and includes more than forty-five public health measures analyzed by gender as well as annual trends for eight specific age categories. In addition, summary poverty statistics and socioeconomic indicators are provided based on age and family composition.

This fourth edition of the PCAD report provides data on a statewide basis and divides the state into twenty-four geographically defined Hospital Service Areas (HSAs), and compares them to the New Hampshire state average. It illustrates major birth, death, hospitalization, and cancer incidence indicators for these areas.

The county is a broad territorial division within the state, demarcated by geographical boundaries, often with little relation to the utilization of health care services. Alternatively, an HSA is a smaller geographical region (a set of towns). It is constructed using information provided in the uniform hospital discharge data set, and is assumed to represent contiguous communities that share health care resources and have similar health outcomes.

This report is divided into five major sections: an Introduction; the Materials and Methods section, which describes the methods used to compile and analyze the data; the Results section contains tables demonstrating the results of analyses on the statewide and HSA levels, and graphical illustrations of HSA analyses; the Discussion section describes the patterns seen in a statewide and HSA data analyses; and, finally, the Conclusion section.

The Department of Health and Human Services is available to provide additional data and advice on the type of information that is accessible, and how it may be used to further refine a community needs assessment. Comments, inquiries, and suggestions are encouraged and should be directed to the Bureau of Health Statistics and Data Management which can be reached at (603) 271-4477 or 1-800-852-3345 Ext. 4477 or by e-mailing healthstats@dhhs.state.nh.us.

MATERIALS AND METHODS

Materials

A. Data Sources

New Hampshire resident-based data for the Primary Care Access Data Report were obtained from the following sources for the identified years:

% People Receiving Medicaid or Food Stamps

Source:	New Hampshire Department of Health and Human Services, Office of Economic Services
Years:	1997 and 1998
Method:	Average number of unduplicated caseloads receiving Medicaid health benefits or food stamps based on July 1st caseloads for years 1997-1998, as a percent of the 1995 population by age group.

% Unemployment

Source:	New Hampshire Department of Employment Security, Economic and Labor Market Information Bureau
Year:	1995
Method:	Annual average unemployment figures divided by the annual average labor force.

% Population in Poverty

Source:	1990 United States Census Bureau
Year:	1989
Method:	Number of individuals below 100% of the federal poverty guidelines as a percent of the total number of individuals for whom poverty status was determined.

Infant Mortality

Source:	New Hampshire Department of Health and Human Services, Office of Community and Public Health, Bureau of Vital Records
Years:	1993-1997
Method:	Number of infant deaths divided by the total number of live births (per 1,000 live births). (Note: Low birthweight mortality is per 1,000 low birthweight births, and normal birthweight mortality is per 1,000 normal birthweight births.)

Infant Health and Birth Related Rates

Source:	New Hampshire Department of Health and Human Services, Office of Community and Public Health, Bureau of Vital Records
Years:	1993-1997
Method:	Risk Indicators: Number of births with a specified birth characteristic as a percent of the total number of live births with non-missing values for that characteristic. Birth Rate: Number of births to women of a specific age group divided by the estimated female population within that age group (per 1,000 females).

Mortality Rates

Source:	New Hampshire Department of Health and Human Services, Office of Community and Public Health, Bureau of Vital Records
Years:	1993-1997
Method:	Average annual number of deaths with a specified underlying cause of death divided by the 1995 population (per 100,000 population).

Diabetes-Related Mortality

Source:	New Hampshire Department of Health and Human Services, Office of Community and Public Health, Bureau of Vital Records
Years:	1993–1997
Method:	Average annual number of deaths with any listed multiple causes of death, either underlying or contributing; identified as Diabetes (ICD-9 code 250) divided by the 1995 population (per 100,000 population).

Cancer Incidence

Source:	New Hampshire State Cancer Registry
Years:	1993-1997
Method:	Average annual number of newly diagnosed invasive cancers categorized by primary site, divided by the 1995 population (per 100,000 population).

Hospitalization Rates

Source:	New Hampshire Department of Health and Human Services, Office of Community and Public Health, Bureau of Health Statistics and Data Management
Years:	1993-1997
Method:	Average annual number of inpatient hospitalizations in specified diagnostic groups divided by the 1995 population (per 100,000 population).

B. Definitions

Ambulatory Care Sensitive (ACS) Conditions: Medical conditions that are less likely to require inpatient hospitalization if timely and appropriate primary care is received.

Infant Mortality: Death under one year of age.

Late/No Prenatal Care Initiation: Prenatal care begun after the second trimester of pregnancy, or no prenatal care obtained.

Low Birthweight: Birthweight less than 2500 grams (5.5 pounds).

Marker Conditions: Medical conditions that have a low variation in hospitalization rates relative to prior primary care. These rates are useful for baseline comparisons to ACS conditions.

Maternal Smoking: Tobacco use at any point during pregnancy.

Medicaid/Food Stamp Eligibility: Federal/state human services program providing financial assistance to low income families.

Medicaid Payment: Those births where either prenatal care, delivery, or both were paid by Medicaid.

Mother Unmarried: Mothers, other than those identified as married at birth, conception, or at any time between.

Poverty: 1989 Federal poverty thresholds: one person: \$6,310; family of four: \$12,674.

C. ICD-9 Codes

International Classification of Diseases, ninth revision, are used for identifying specific conditions presented in the statewide and hospital service area assessment analyses.

Internal Causes (1 - 799.8) (<i>i.e.</i> , diseases or non injury)
Cancer (140-239)
Breast (174-174.9)
Cervix (180-180.9)
Colon (153-153.9, 159-159.9)
Lung (162.2-162.9)
Prostate (185-185.9)
Diabetes-related (250-250.9)
Heart Disease (390-398.9, 402-402.9, 404-429.9)
Cerebrovascular Disease (430-439.9)
Chronic Obstructive Pulmonary Disease (490-496.9)
Injury Causes (E800-E999.9) (intentional and unintentional)
Total Unintentional (E800-E949.9)
Motor Vehicle Accident (E810-E825.9)
Falls (E880-E888.9)
Total Intentional (E950-E969.9)
Suicide (E950-E959.9)
Firearm (E922-E922.9 (unintentional), E965.0-E965.4, E970 (homicide), E955.0-E955.4 (suicide), and E985.0-E985.4 (unknown))
Obstetric (DRG 370-375)

D. Ambulatory Care Sensitive Conditions

Condition	ICD 9-CM Code	Comments
Congenital Syphilis	090	Secondary Diagnosis, Newborns only
Immunization-Preventable Conditions		
Pertussis	033	
Rheumatic fever without mention of heart involvement	390	
Rheumatic fever with heart involvement	391	
Tetanus	037	
Polio	045	
Haemophilus meningitis	320.0	All ages
Grand Mal Status and other epileptic convulsions	345	
Convulsions	780.3	All ages

Condition	ICD 9-CM Code	Comments
Severe ENT Infections		
Suppurative and unspecified otitis media	382	Exclude otitis media cases with myringotomy with insertion of tube (20.01)
Acute pharyngitis	462	
Acute tonsillitis	463	
Acute upper respiratory infection	465	
Chronic pharyngitis	472.1	
Pulmonary Tuberculosis	011	
Other Tuberculosis		
Other respiratory tuberculosis	012	
Tuberculosis of meninges and CNS	013	
Tuberculosis of intestines, peritoneum, and mesenteric glands	014	
Tuberculosis of bones and joints	015	
Tuberculosis of genitourinary system	016	
Tuberculosis of other origins	017	
Miliary tuberculosis	018	
Chronic Obstructive Pulmonary Disease		
Chronic bronchitis	491	
Emphysema	492	
Bronchiectasis	494	
Chronic airway obstruction, not elsewhere classified	496	
Acute bronchitis	466.0	Acute bronchitis only with secondary diagnosis of 491, 492, 494, or 496
Bacterial Pneumonia		
Pneumococcal pneumonia	481	Exclude cases with secondary diagnosis of sickle cell (282.6)
Pneumonia due to Haemophilus Influenza	482.2	
Pneumonia due to Streptococcus	482.3	
Bacterial pneumonia unspecified	482.9	
Pneumonia due to other specified organisms	483	
Bronchopneumonia, organism unspecified	485	
Pneumonia, organism unspecified	486	
Asthma	493	
Congestive Heart Failure		
Heart Failure	428	Exclude CHF cases with the following surgical procedures: 36.01, 36.02, 36.05, 36.1, 37.5 or 37.7
Malignant hypertensive heart disease with congestive heart failure	402.01	
Benign hypertensive heart disease with congestive heart failure	402.11	
Unspecified hypertensive heart disease with congestive heart failure	402.91	
Acute edema of lung, unspecified	518.4	

Condition	ICD 9-CM Code	Comments
Hypertension		
Malignant essential hypertension	401.0	Exclude Hypertension cases with the following surgical procedures: 36.01, 36.02, 36.05, 36.1, 37.5 or 37.7
Unspecified essential hypertension	401.9	
Malignant hypertensive heart disease without congestive heart failure	402.0	
Benign hypertensive heart disease without congestive heart failure	402.1	
Unspecified hypertensive heart disease without congestive heart failure	402.9	
Angina		
Intermediate coronary syndrome	411.1	Exclude anything between 1-86.90
Other forms of ischemic heart disease	411.8	
Angina pectoris	413	
Cellulitis		
Cellulitis and abscess of finger and toe	681	Exclude cases with a surgical procedure (1-86.99), except incision of skin and subcutaneous tissue (86.0) as only listed
Other cellulitis and abscess	682	
Acute lymphadenitis	683	
Other local infections of skin and subcutaneous tissue	686	
<i>Skin grafts with Cellulitis</i>	<i>Procedures</i>	
	86.22	
	86.27	
	86.28	
	86.69	
	86.75	
Diabetes A		
Diabetes with ketoacidosis	250.1	
Diabetes with hyperosmolar coma	250.2	
Diabetes with other coma	250.3	
Diabetes B		
Diabetes with other specified manifestations	250.8	
Diabetes with unspecified complication	250.9	
Diabetes C		
Diabetes mellitus without mention of complication	250.0	
Hypoglycemia (unspecified)	251.2	
Gastroenteritis	558.9	
Kidney/Urine Infection		
Infections of kidney	590	
Urinary tract infection, site not specified	599.0	
Unspecified disorder of urethra and urinary tract	599.9	
Dehydration – Volume Depletion	276.5	

Condition	ICD 9-CM Code	Comments
Iron Deficiency Anemia		Age <6
Secondary to inadequate dietary iron intake	280.1	
Other specified iron deficiency anemias	280.8	
Iron deficiency anemia, unspecified	280.9	
Nutritional Deficiencies		
Kwashiorkor	260	
Nutritional marasmus	261	
Other severe protein calorie malnutrition	262	
Rickets, active	268.0	
Rickets, late effect	268.1	
Failure to thrive	783.4	Age <1
Pelvic Inflammatory Disease	614	Exclude cases of principal procedure of hysterectomy (68.3-68.8)
Dental Conditions		
Diseases of hard tissue and teeth	521	
Diseases of pulp and periapical tissues	522	
Gingival and periodontal diseases	523	
Other diseases and conditions of teeth	525	
Diseases of oral soft tissue	528	

E. Marker Conditions

Condition	ICD 9-CM Code	Comments
Appendicitis with appendectomy	540-542	With principal procedure 47.0 or 47.1
Acute Myocardial Infarction	410	Include only cases with LOS >= 4 days
Gastrointestinal Obstruction	560	
Fracture hip/femur	820	Age 45+

Methods

In all analyses, rates or percentages are utilized to permit comparisons of populations of various sizes.

F. Statewide Analysis

This report begins with a statewide analysis of a broad array of health-related indicators from several sources, including vital records birth and death statistical files, the uniform hospital discharge data set, the New Hampshire State Cancer Registry, and the United States Census Bureau. The statewide analysis begins with socioeconomic risk indicators by age. This is followed by an examination of health indicators for eight separate age groups: infancy (<1 year), ages 1-14, 15-17, 18-24, 25-44, 45-64, 65-74, and 75 and over.

Within each age group, five year rates of health-related information are reported, as well as sex-specific rates. Health related rates are then provided for individual years to permit trend analysis.

Medicaid/food stamp and unemployment rates are used as socioeconomic indicators because they reflect changes in the economy that have occurred since the 1990 poverty rates were calculated by the United States Census Bureau. Unlike poverty rates, these rates are available by town for more recent time periods. In addition, there was a change from the methodology used to report the Medicaid or Food Stamp rate in the previous PCAD report due to Medicaid's new automated reporting criteria that now utilizes only two age categories: children (age <19) and adults (age 19+). We have included the unemployment rate as an additional intercensal indicator of statewide and community socioeconomic conditions. The proportion of births and deaths affecting people with less than twelve years of education is also presented as a final set of socioeconomic indicators.

Four categories of inpatient hospitalization rates are presented in this report: injury, obstetrical, ambulatory care sensitive (ACS) conditions, and marker conditions. ACS conditions are a group of diagnoses considered less likely to require inpatient hospitalization if timely and appropriate outpatient care is obtained. They are used as an indicator of primary health care adequacy and utilization. Marker conditions are a set of diagnoses where neither the incidence nor the need for hospitalization should vary much between populations - whether high or low socioeconomic risk, insured, or uninsured. Listings of the specific diagnoses included in both ACS and marker conditions are provided in the Materials section of the report. Marker conditions are presented primarily as a "control" set of conditions for comparison with ACS hospitalization rates. In order to assist in this comparison, ratios of ACS to marker condition admissions are also presented. Generally, this ratio varies around 3 ACS admissions for each Marker Condition admission. The major exception is in the 15-17 year old age group where the ratio is 1.7:1, since many of the chronic illnesses that comprise the set of ACS conditions and those conditions specific to childhood are not common in this age group. In every age group, with the exception of the elderly, the ratio is higher in women than men. Between the ages of 15-64, the female ratio is basically double the ratio for males. This would tend to indicate that women receive effective preventive treatment at a rate about half that of males of the same age. Though still slightly higher for females, the ratio converges in the 65-74 year old age group. This process then becomes reversed in the elderly age group with males receiving 40% less satisfactory primary care treatment than women. The ratios have remained relatively stable over time with the exception of the 25-44 and 45-64 year old age groups, which seem to be increasing slightly. This would indicate that primary care treatment is worsening over time in these age groups.

G. Interpreting Rates

In New Hampshire, small numbers are often encountered when examining the number of some conditions. Rates based on fewer than 20 events have a relative standard error of approximately 23% or more, and, therefore, are considered highly variable and statistically unreliable (*National Vital Statistics Reports*, NCHS, CDC, v.47, n.19, 1999). This variation substantially limits the usefulness of rates as estimators of the probability of an event and their utility in making comparisons. For this reason, data are summarized into five year aggregates. However, when analyzing the data in certain subcategories, there still may not be enough events to allow for the presentation of rates. For example, the

number of deaths due to cancer or heart disease in individuals younger than 25 years of age was too small to report meaningful statistics, even on a statewide basis. When values of less than 20 were encountered within this report, the rates were not calculated and a blank appears in place of the rate, thus indicating that the figure does not meet standards of reliability, or precision, as established by the National Center for Health Statistics.

Missing Values

Missing values are an important factor in constructing rates. In cases where there was no value reported for a response relative to a specific measure, the value was excluded from the denominator when calculating rates.

Age-Specific Value

Age-specific values are presented in this analysis. The age-specific value is the number of events in a specific age group (<1, 1-14, 15-17, 18-24, 25-44, 45-64, 65-74, and 75+) divided by the population in that age group. This value is usually multiplied by a base number of either 1,000 or 100,000 and presented as per 1,000 or per 100,000. The populations used for each age group by hospital service area are presented in the table below.

1995 Populations of Hospital Service Areas Listed by Age Group

HSA	Age Group								Total
	<1	1-14	15-17	18-24	25-44	45-64	65-74	75+	
Berlin	137	3,359	766	1,543	5,025	3,932	1,614	1,399	17,774
Claremont	250	4,369	928	1,890	6,348	4,799	1,764	1,536	21,884
Colebrook	60	1,028	238	480	1,564	1,224	502	435	5,533
Concord	1,416	22,511	4,613	10,687	35,392	23,062	6,965	6,513	111,158
Conway	200	3,273	678	1,342	4,826	3,848	1,394	1,203	16,764
Derry	1,185	15,452	3,005	6,635	24,841	15,854	3,749	2,881	73,603
Dover	679	10,754	2,070	11,042	17,930	10,735	3,479	2,784	59,473
Exeter	1,094	16,926	3,331	7,581	28,689	17,817	5,079	4,057	84,574
Franklin	138	2,411	500	1,033	3,735	2,539	767	712	11,834
Haverhill	53	1,197	260	487	1,864	1,197	506	512	6,074
Keene	612	11,690	2,497	6,938	17,568	13,295	4,473	4,037	61,110
Laconia	596	11,434	2,421	4,914	17,269	12,737	4,349	3,602	57,322
Lancaster	94	1,601	371	748	2,436	1,906	783	678	8,618
Lebanon	509	8,384	1,792	6,811	13,319	9,575	3,194	2,808	46,393
Littleton	169	3,597	732	1,406	5,589	4,030	1,355	1,202	18,079
Manchester	2,160	32,637	6,191	15,306	52,390	32,726	9,122	7,439	157,972
Nashua	2,562	34,910	6,933	16,382	56,585	35,091	9,896	8,015	170,374
New London	143	2,820	537	1,278	4,260	2,947	933	864	13,782
Peterborough	440	6,728	1,365	4,082	10,331	6,498	2,138	1,869	33,451
Plymouth	135	2,537	491	3,625	4,001	2,706	942	794	15,230
Portsmouth	370	6,460	1,267	2,764	10,621	7,049	1,912	1,460	31,903
Rochester	558	9,097	1,705	4,125	14,950	8,841	2,856	2,324	44,457
Salem	804	12,990	2,502	5,587	20,634	13,108	3,195	2,480	61,300
Wolfeboro	212	3,699	751	1,442	5,580	4,348	1,776	1,539	19,346
New Hampshire	14,576	229,863	45,944	118,131	365,749	239,864	72,743	61,141	1,148,009

H. Population Estimates for Rate Calculations

State, city, and town population counts for New Hampshire have been obtained by applying the proportions from the *1995 New Hampshire Population Projections for Counties by Age and Sex* to the *1995 Population Estimates of New Hampshire Cities and Towns*; both of which were prepared by the New Hampshire Office of State Planning (OSP). The population figures for 1995 were chosen for use in calculating rates since this year represents the midpoint of the five years of study, 1993 through 1997. There were fourteen towns where, due to the presence of nursing homes or universities, it was determined that the town age distribution was sufficiently different from that of the county. In these situations, the town specific age/sex distributions from the 1990 United States Census Bureau were determined to be more representative, and therefore, were applied to the individual towns with the distributions for the remainder of the county adjusted accordingly. Since the town-specific age and sex population estimates are based on town-wide estimates applied to county level projections, it is assumed that there is an unknown amount of error in the individual components of the estimates. However, when combining towns together to construct HSAs, much of the variability in the town-specific estimates is assumed to be canceled.

Caution should be employed when analyzing rates calculated for individual years and/or attempting to interpret temporal trends. As mentioned above, the 1995 population was utilized as the denominator for each year, 1993 through 1997, since it was the midpoint year, and accurate estimates by age and sex were available from the Office of State Planning. However, additional information, also available from the Office of State Planning, indicates that the population in the State of New Hampshire has increased steadily by slightly more than 4% over the five year time period studied. As a result, the denominators utilized in the outlier years of 1993 and 1997 would be expected to misstate the true population by +/-2% averaged across all age groups. Since the true denominators for 1993 are assumed to be overstated by 2% in our analysis, the true rates would be assumed to be 2% higher, on average, than the rates presented in the table. Conversely, the true rates for 1997 are assumed to be an average of 2% lower than the rates presented. Similarly, the values used for 1994 and 1996 would be misstated, on average, by +/-1%, resulting in the true rates being, on average, 1% higher in 1994 and 1% lower in 1996 than the rates presented. Thus, any trend calculation should be adjusted to compensate for this implied average 4% declining trend over the five-year period. This adjustment should be done with caution however, as the population change likely has not occurred evenly across all age groups. This issue does not apply to birth-related proportions, as these utilize annual number of births as the denominators.

I. Hospital Service Area (HSA) Analysis

This report is unique among New Hampshire DHHS statistical reports in that it organizes the presentation of health indicators by hospital service area (HSA). In order to construct HSAs, hospital discharge data from all New Hampshire hospitals were examined by the town of the patient's residence. A town is considered a part of an HSA when the modal number of town residents who were discharged from hospitals were discharged from one hospital in particular (usually the hospital is located within close proximity to the town). For example, the town of Loudon, that sits adjacent to Concord, would be considered part of the HSA labeled Concord since Concord Hospital is the hospital of choice for people in Loudon. *Therefore, it is important to remember that an HSA is a geographical area, and the*

data pertaining to the HSA does not necessarily reflect characteristics of the hospital, or hospitals in that area. The HSA analyses examine data pertaining to births, deaths, economic status, cancer incidence, and hospital discharge data of people in communities that are in close proximity to a particular hospital.

The health indicators presented in the HSA analyses are similar to those used in the statewide section of the PCAD report. In contrast to the statewide analysis, the HSA tables provide information pertaining to each of the twenty-four HSAs. Both socioeconomic risk and age-specific health outcome data are presented, thus allowing the reader to compare risks and outcomes by age (*e.g.*, a low infant mortality rate together with a high rate of Medicaid or food stamps, or a high injury rate in 18-24 year olds in an HSA with a low poverty rate in that age group). In addition, this analysis permits the study of relationships in the data, such as high proportion of maternal smoking, high proportion of low birthweight births, and high infant mortality rate.

As in the statewide analysis, the HSA indicators are arranged in nine sections. The first section presents a socioeconomic risk profile of the HSA by age group. The second section examines indicators of maternal and infant well-being, and the third through ninth sections present rates of mortality, cancer incidence, hospitalization, and birth (where appropriate), for each of the seven specific age groups (1-14, 15-17, 18-24, 25-44, 45-64, 65-74, and 75+).

A separate table is presented for each of the state's twenty-four HSAs. Each table includes the overall state rate for more than 175 public health indicators, the HSA rate, and the number of events or individuals on which the age-specific rate is based. In addition, distribution of rates for a particular indicator among HSAs is portrayed by applying a test statistic that will be discussed in the following section.

Selected health indicators for the HSAs were chosen for graphical illustration. The x-axis in the graphs represents each of the twenty-four hospital service areas. Hospital service areas with less than twenty cases observed were represented as a null value, and therefore could not be graphed. The y-axis in all of the graphs represents one of the following: rate per 100,000; rate per 1,000; or rate per 100 (percent).

J. Test Statistic

The statistical test employed in this analysis to determine significant differences between HSA rates and the State rate is a derivation of the z-test developed by Drew and Keeler (*Improving Outcomes in Public Health Practice: Strategy and Methods*. Chapter 11 (p.364) G.E. Alan Dever, PhD, MT, 1997). This test statistic is used to test whether an observed HSA proportion is statistically equivalent to the state reference value. This test statistic is applicable when rates are ***NOT*** independent. Since each HSA contains some of the data points used to calculate the State rate (which is treated as a fixed standard value rather than an estimate), the HSA and State values are ***NOT*** independent. It is important to note that if an HSA's estimated population is a relatively small percentage of the total estimated State population, then the estimate needs to be interpreted with caution. The formula is presented on the following page.

$$\mu = (r - s) \sqrt{\frac{n}{s - s^2}}$$

where r = the observed HSA rate to be compared

s = the standard State rate

n = the denominator (population on which the HSA rate is based)

If the absolute value of μ exceeds 1.96, it can be concluded that the HSA rate differs significantly at the 95% confidence level from the standard State rate to which it is compared. If the absolute value of μ exceeds 2.58, it is significantly different at the 99% confidence level.

The individual μ values should not be used to rank or compare HSAs. The sole purpose of the μ value is to determine the degree to which the individual HSA rate differs from the corresponding State rate. If any comparisons are conducted, they should be between the actual rates. The only appropriate application for the μ statistic is to identify the degree of significance of the difference between the HSA rate and the State standard.

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Statewide Analysis

	State Rate	Sex		Year				
		Female	Male	1993	1994	1995	1996	1997
I. Socioeconomic Risk Indicators								
A. % Receiving Medicaid or Food Stamps (1997, 1998)								
Children (Age <19)	9.1%							
Adults (Age 19+)	2.1%							
B. Unemployment (1995)								
	4.0%							
C. % Population in Poverty (1989)								
Children (Age 0-17)	7.4%							
Children (Age 0-5)	8.6%							
In Married Couple Household	3.9%							
In Female-Headed Household	46.4%							
Children (Age 6-17)	6.8%							
In Married Couple Household	2.8%							
In Female-Headed Household	23.5%							
Young Adult (Age 18-24)	11.1%							
Adult (Age 25-44)	4.4%							
Middle Age (Age 45-64)	4.5%							
Senior (Age 65-74)	7.7%							
Elderly (Age 75+)	13.9%							
D. % Deaths <12 Yrs. Education								
People (Age 25-44)	15.4%	12.6%	16.8%	17.8%	15.4%	15.2%	12.9%	15.6%
People (Age 45-64)	18.9%	15.1%	21.5%	19.9%	20.1%	19.1%	18.1%	17.6%
People (Age 65+)	28.8%	27.9%	30.0%	31.1%	30.3%	28.8%	27.2%	27.0%
E. % Births, Mother's Education <12 Yrs.								
Mothers (Age 18-24)	24.0%			24.2%	24.2%	24.3%	23.4%	23.7%
Mothers (Age 25+)	4.1%			4.2%	4.2%	4.2%	3.9%	4.0%
II. Infant Health (Age <1)								
Health Status, Behaviors, and Barriers								
Infant Mortality per 1,000 Live Births	5.28			5.58	6.10	5.28	4.96	4.41
Low Birthweight Mortality	47.56			55.48	65.89	42.29	44.60	31.10
Normal Birthweight Mortality	2.00			2.18	2.24	2.98	1.60	0.97
Low Birthweight Births	5.2%			4.8%	5.1%	5.5%	4.8%	5.9%
Maternal Smoking	17.6%			18.4%	18.2%	17.5%	16.4%	17.4%
Late/No Prenatal Care Initiation	1.7%			1.6%	1.9%	1.6%	1.6%	1.6%
Mother's Education < 12 years	10.9%			11.0%	11.1%	11.1%	10.6%	10.9%
Mother's Age < 20	7.3%			6.8%	7.0%	7.5%	7.4%	7.8%
Mother Unmarried	22.3%			20.6%	22.1%	22.2%	23.2%	23.8%
Medicaid Payment	20.7%			19.4%	21.5%	21.0%	22.5%	19.5%
III. Children (Age 1-14)								
A. Mortality Rate per 100,000								
All Causes	18.45	16.71	20.11	12.18	20.45	21.32	18.27	20.01
Internal Causes	11.40	11.02	11.76		10.88	15.23	10.88	11.75
Injury Causes	6.53	5.51	7.50					
Motor Vehicle Accident	2.35							
B. Hospitalization Rate per 100,000								
All Admissions	1669.86	1527.12	1806.49	1840.66	1822.39	1660.12	1537.87	1488.28
ACS Admissions	446.96	427.79	465.34	494.64	498.99	431.13	417.64	392.41
Marker Condition Admissions	114.85	100.10	128.99	127.03	118.33	113.55	108.76	106.59
ACS/Marker Condition Admissions	3.89	4.27	3.61	3.89	4.22	3.80	3.84	3.68
Injury Admissions	241.62	187.58	293.41	268.42	256.24	242.32	219.70	221.44

	State Rate	Sex		1993	1994	Year		
		Female	Male			1995	1996	1997
IV. Adolescents (Age 15-17)								
A. Mortality Rate per 100,000								
All Causes	43.10	29.21	56.53	50.06		56.59		
Internal Causes	10.45							
Iniurv Causes	32.21	23.01	41.12			43.53		
Total Unintentional	19.15		23.13					
Motor Vehicle Accident	16.98		19.70					
Total Intentional	12.62		17.13					
Suicide	9.58							
Firearm	9.14							
B. Hospitalization Rate per 100,000								
All Admissions	3384.99	4507.19	2299.03	3456.38	3578.27	3308.38	3327.96	3253.96
ACS Admissions	323.44	356.72	291.23	374.37	348.25	309.07	287.31	298.19
Marker Condition Admissions	185.01	151.36	217.57	204.60	169.77	202.42	176.30	171.95
ACS/Marker Condition Admissions	1.75	2.36	1.34	1.83	2.05	1.53	1.63	1.73
Injury Admissions	640.78	614.30	666.41	716.09	681.26	592.03	631.20	583.32
Obstetric Admissions		1424.21		1305.60	1354.28	1469.35	1509.18	1482.63
C. Birth-related Rates								
Birth Rate per 1,000 Females		14.43		13.37	13.72	14.47	15.62	14.96
Low Birthweight Births	8.7%			7.3%	9.4%	12.3%	6.5%	8.3%
Maternal Smoking	35.0%			30.1%	36.5%	35.5%	34.7%	38.0%
Late/No Prenatal Care Initiation	6.1%			7.3%	7.4%	5.6%	4.8%	5.7%
Mother's Education < 12 years	92.0%			94.3%	93.8%	89.8%	90.1%	92.5%
Mother Unmarried	93.8%			92.4%	92.3%	94.2%	94.1%	95.9%
Medicaid Pdvment	53.3%			55.4%	52.6%	50.5%	54.5%	53.8%
V. Young Adult (Age 18-24)								
A. Mortality Rate per 100,000								
All Causes	53.84	24.62	81.70	39.79	62.64	55.02	60.95	50.79
Internal Causes	10.67	7.63	13.56					
Iniurv Causes	42.50	16.65	67.15	33.01	47.40	47.40	45.71	38.94
Total Unintentional	24.89	11.44	37.71	20.32	28.78	23.70	26.24	25.40
Motor Vehicle Accident	20.99	10.06	31.42		22.86	22.86	24.55	18.62
Total Intentional	16.08		27.12		17.78	22.01		
Suicide	14.39		24.81		16.93	21.16		
Firearm	10.33		17.20					
B. Hospitalization Rate per 100,000								
All Admissions	5740.24	9531.80	2123.98	6240.53	6122.02	5701.30	5346.61	5290.74
ACS Admissions	324.39	412.71	240.15	357.23	358.92	287.82	319.98	297.97
Marker Condition Admissions	120.37	104.04	135.95	120.21	126.98	123.59	121.90	109.20
ACS/Marker Condition Admissions	2.69	3.97	1.77	2.97	2.83	2.33	2.63	2.73
Iniurv Admissions	483.19	365.89	595.08	557.01	546.00	491.83	409.71	411.41
Obstetric Admissions		6129.92		6445.52	6395.23	6065.76	5821.25	5921.83
C. Birth-related Rates								
Birth Rate per 1,000 Females		62.53		66.47	65.06	62.11	58.77	60.24
Low Birthweight Births	5.7%			5.0%	5.4%	6.4%	5.5%	6.3%
Maternal Smoking	30.0%			30.7%	31.0%	29.3%	29.5%	29.6%
Late/No Prenatal Care Initiation	3.0%			2.9%	3.2%	3.2%	2.9%	2.8%
Mother's Education < 12 years	24.0%			24.2%	24.2%	24.3%	23.4%	23.7%
Mother Unmarried	51.3%			47.2%	50.7%	51.4%	53.9%	53.9%
Medicaid Pdvment	46.7%			44.2%	49.5%	47.7%	49.6%	43.1%

	State Rate	Sex		Year				
		Female	Male	1993	1994	1995	1996	1997
VI. Adults (Age 25-44)								
A. Mortality Rate per 100,000								
All Causes	113.58	73.97	153.73	118.93	111.28	112.10	116.47	109.09
Internal Causes	69.67	54.63	84.91	74.09	68.35	68.90	74.91	62.06
Heart Disease	14.05	5.87	22.36	13.12	17.77	15.86	9.84	13.67
Cancer	24.83	27.15	22.47	29.80	21.05	19.69	30.62	22.97
Breast (Female)		7.93		11.95				
Cervix								
Colon	1.15							
Lung	3.39	3.58	3.19					
Prostate								
Diabetes-related Mortality	4.32	2.93	5.73					
Injury Causes	41.67	18.03	65.63	43.75	37.73	41.56	39.92	45.39
Total Unintentional	20.40	8.47	32.49	20.51	18.05	21.60	16.40	25.43
Motor Vehicle Accident	11.05	5.21	16.96	9.57	9.57	12.03	10.39	13.67
Total Intentional	17.72	8.91	26.65	19.41	18.05	15.31	18.32	17.50
Suicide	15.20	6.95	23.57	15.58	15.58	13.67	16.40	14.76
Firearm	9.46	3.91	15.09	9.84	10.12	9.84	9.57	7.93
B. Cancer Incidence Rate per 100,000								
Breast (Female)		56.26		60.82	61.37	53.76	54.31	51.05
Cervix		12.27		16.84	14.66			10.86
Colon	3.55	2.93	4.18					
Lung	5.30	5.97	4.63	5.74			6.02	6.02
Prostate								
C. Hospitalization Rate per 100,000								
All Admissions	7719.56	11115.48	4276.48	7962.02	7971.31	7676.03	7564.20	7424.22
ACS Admissions	409.63	474.11	344.25	403.56	418.32	398.63	411.76	415.86
Marker Condition Admissions	137.09	109.16	165.41	139.44	144.09	138.07	135.61	128.23
ACS/Marker Condition Admissions	2.99	4.34	2.08	2.89	2.90	2.89	3.04	3.24
Injury Admissions	577.94	467.92	689.49	629.12	608.07	566.78	549.28	536.43
Obstetric Admissions		5672.33		5766.39	5802.78	5654.52	5632.79	5505.17
D. Birth-related Rates								
Birth Rate per 1,000 Females		58.79		61.19	59.77	57.82	58.45	56.74
Low Birthweight Births	4.9%			4.6%	4.9%	5.0%	4.5%	5.6%
Maternal Smoking	13.0%			14.0%	13.4%	13.0%	11.7%	12.7%
Late/No Prenatal Care Initiation	1.1%			1.0%	1.2%	1.0%	1.0%	1.0%
Mother's Education < 12 years	4.1%			4.2%	4.2%	4.2%	3.9%	4.0%
Mother Unmarried	10.5%			9.6%	10.3%	10.2%	11.1%	11.4%
Medicaid Payment	10.9%			10.0%	11.0%	11.1%	12.2%	10.5%
VII. Middle Age (Age 45-64)								
A. Mortality Rate per 100,000								
All Causes	589.50	464.28	715.44	591.17	577.41	588.25	587.83	602.84
Internal Causes	547.89	441.50	654.90	549.89	541.97	544.89	547.39	555.31
Heart Disease	148.58	75.99	221.59	152.17	148.42	147.17	150.09	145.08
Cancer	245.81	239.29	252.36	257.65	238.89	247.22	240.55	244.72
Breast (Female)		47.89		62.36	47.39	41.57	44.90	43.24
Cervix		5.82						
Colon	16.51	13.80	19.23	15.43	15.43	19.59	15.84	16.26
Lung	78.04	67.68	88.47	87.97	75.88	75.04	73.37	77.96
Prostate			7.53					
Chronic Obstructive Pulmonary Disease	22.76	23.11	22.41	17.09	25.01	25.43	20.01	26.26
Diabetes-related Mortality	52.78	40.57	65.06	49.61	52.53	51.28	55.03	55.45
Injury Causes	39.02	20.62	57.53	37.52	31.68	42.52	38.77	44.61
Total Unintentional	19.93	12.14	27.76	19.59	17.09	22.10	20.01	20.85
Motor Vehicle Accident	8.59	5.49	11.71	8.34		10.42	10.01	8.34
Total Intentional	17.84	8.31	27.43	17.51	14.17	19.18	16.26	22.10
Suicide	16.01	7.48	24.58	15.84	10.84	19.18	14.59	19.59
Firearm	10.84	3.82	17.89	11.26	9.17	9.17	12.09	12.51

	State Rate	Sex		Year				
		Female	Male	1993	1994	1995	1996	1997
B. Cancer Incidence Rate per 100,000								
Breast (Female)		259.58		233.64	229.48	277.70	281.03	276.04
Cervix		16.46		20.79		17.46		18.29
Colon	39.94	34.75	45.15	37.10	49.61	36.69	33.35	42.94
Lung	99.22	87.80	110.71	100.89	97.14	92.55	106.73	98.81
Prostate			164.23	132.95	137.13	173.09	178.11	199.85
C. Hospitalization Rate per 100,000								
All Admissions	9642.30	8997.61	10290.74	9361.14	9660.06	9786.38	9575.84	9828.07
ACS Admissions	1064.52	1085.37	1043.56	995.56	1070.19	1038.51	1082.70	1135.64
Marker Condition Admissions	468.85	327.76	610.75	487.78	479.02	501.53	460.26	415.65
ACS/Marker Condition Admissions	2.27	3.31	1.71	2.04	2.23	2.07	2.35	2.73
Injury Admissions	758.76	680.29	837.69	739.59	775.02	760.01	737.50	781.69
VIII. Senior (Age 65-74)								
A. Mortality Rate per 100,000								
All Causes	2580.32	1992.02	3293.39	2570.69	2514.33	2683.42	2580.32	2552.82
Internal Causes	2523.40	1950.38	3217.98	2495.09	2459.34	2636.68	2526.70	2499.21
Heart Disease	749.21	507.79	1041.84	754.71	734.09	823.45	757.46	676.35
Cancer	958.17	774.73	1180.51	987.04	888.06	988.41	947.17	980.16
Breast (Female)		127.45		145.51	127.95	120.42	122.93	120.42
Cervix								
Colon	76.98	71.75	83.32	70.11	76.98	67.36	75.61	94.85
Lung	311.23	218.77	423.31	318.93	279.06	340.93	320.31	296.94
Prostate			102.79	69.94	112.52	112.52	106.43	112.52
Cerebrovascular Disease	124.27	107.38	144.75	126.47	112.73	130.60	134.72	116.85
Chronic Obstructive Pulmonary Disease	171.84	143.51	206.18	155.34	184.21	167.71	162.21	189.71
Diabetes-related Mortality	296.39	242.35	361.88	292.81	283.19	323.06	283.19	299.69
Injury Causes	53.34	36.63	73.59	70.11	48.11	46.74	53.61	48.11
Total Unintentional	39.59	31.61	49.26	45.37	31.62	39.87	43.99	37.12
Falls	11.82		17.64					
Motor Vehicle Accident	15.12	15.05	15.20					
Total Intentional	13.47		24.33					
Suicide	12.65		23.72					
Firearm	9.62		19.46					
B. Cancer Incidence Rate per 100,000								
Breast (Female)		443.06		396.40	456.61	426.50	474.17	461.63
Cervix		11.54						
Colon	185.86	156.55	221.38	170.46	192.46	195.21	195.21	175.96
Lung	356.60	261.92	471.35	332.68	347.80	406.91	361.55	334.05
Prostate			919.60	891.01	1073.47	927.50	827.15	878.85
C. Hospitalization Rate per 100,000								
All Admissions	23993.51	21225.32	27348.86	23386.44	23959.69	24451.84	24215.39	23954.19
ACS Admissions	3877.21	3598.18	4215.42	3773.56	3970.14	3990.76	3864.29	3787.31
Marker Condition Admissions	1323.29	1138.51	1547.26	1322.46	1354.08	1305.97	1384.33	1249.60
ACS/Marker Condition Admissions	2.93	3.16	2.72	2.85	2.93	3.06	2.79	3.03
Injury Admissions	1682.09	1680.93	1683.49	1668.89	1679.89	1682.64	1751.37	1627.65

	State Rate	Sex		Year				
		Female	Male	1993	1994	1995	1996	1997
IX. Elderly (Age 75 +)								
A. Mortality Rate per 100,000								
All Causes	8573.95	7833.91	9989.52	8073.14	8246.51	8495.12	8959.62	9095.37
Internal Causes	8410.72	7710.86	9749.45	7935.76	8094.40	8349.55	8789.52	8884.38
Heart Disease	3107.90	2870.02	3562.92	3048.69	3020.89	3137.01	3212.25	3120.66
Cancer	1563.93	1246.45	2171.10	1475.28	1542.34	1537.43	1624.11	1640.47
Breast (Female)		179.35		181.84	189.31	171.87	181.84	171.87
Cervix								
Colon	169.77	170.38	168.62	176.64	155.38	170.10	170.10	176.64
Lung	354.92	233.65	586.83	350.01	351.65	338.56	351.65	382.72
Prostate			422.98	376.30	381.06	481.09	438.22	438.22
Cerebrovascular Disease	814.51	868.33	711.63	789.98	726.19	798.16	876.66	881.57
Chronic Obstructive Pulmonary Disease	489.03	370.65	715.44	421.98	462.86	475.95	525.02	559.36
Diabetes-related Mortality	764.79	689.48	908.83	700.02	758.90	693.48	806.33	865.21
Injury Causes	155.05	116.08	229.59	122.67	142.29	140.66	161.92	207.72
Total Unintentional	136.08	110.60	184.81	103.04	125.94	124.30	135.75	191.36
Falls	59.53	49.82	78.12	45.80	62.15	50.70	58.88	80.14
Motor Vehicle Accident	26.50	19.43	40.01					
Total Intentional	18.65		43.82					
Suicide	16.36		40.96					
Firearm	11.45		32.39					
B. Cancer Incidence Rate per 100,000								
Breast (Female)		420.96		415.98	398.55	463.31	398.55	428.44
Cervix		13.45						
Colon	331.69	318.84	356.29	315.66	340.20	361.46	318.93	322.21
Lung	313.70	210.73	510.62	317.30	284.59	302.58	335.29	328.75
Prostate			991.71	1281.32	995.52	986.00	762.12	933.60
C. Hospitalization Rate per 100,000								
All Admissions	37030.14	33830.52	43150.42	34386.09	35933.33	36631.72	38622.20	39577.37
ACS Admissions	7967.81	7222.64	9393.16	7448.36	7852.34	7638.08	8259.60	8640.68
Marker Condition Admissions	3224.68	3345.29	2994.19	3099.39	3148.46	3339.82	3285.85	3249.87
ACS/Marker Condition Admissions	2.47	2.16	3.14	2.40	2.49	2.29	2.51	2.66
Injury Admissions	3731.38	4058.19	3106.60	3614.60	3652.21	3666.93	3768.34	3954.79

Hospital Service Area Designation by Community

Town	Hospital Service Area	1995 Population
Acworth	Keene	774
Albany	Conway	570
Alexandria	Laconia	1,270
Allenstown	Concord	4,742
Alstead	Keene	1,761
Alton	Wolfeboro	3,414
Amherst	Nashua	9,408
Andover	New London	1,926
Antrim	Peterborough	2,372
Ashland	Laconia	2,015
Atkinson	Salem	5,685
Auburn	Manchester	4,311
Barnstead	Concord	3,186
Barrington	Dover	6,596
Bartlett	Conway	2,462
Bath	Haverhill	807
Bedford	Manchester	13,943
Belmont	Laconia	6,073
Bennington	Peterborough	1,276
Benton	Haverhill	322
Berlin	Berlin	11,857
Bethlehem	Littleton	2,074
Boscawen	Concord	3,572
Bow	Concord	5,919
Bradford	Concord	1,415
Brentwood	Exeter	2,836
Bridgewater	Laconia	818
Bristol	Franklin	2,636
Brookfield	Wolfeboro	524
Brookline	Nashua	3,024
Campton	Plymouth	2,437
Canaan	Lebanon	3,219
Candia	Manchester	3,643
Canterbury	Concord	1,748
Carroll	Littleton	574
Center Harbor	Laconia	1,018
Charlestown	Claremont	4,782
Chatham	Conway	576
Chester	Manchester	3,004
Chesterfield	Keene	3,232
Chichester	Concord	2,021
Claremont	Claremont	13,900
Clarksville	Colebrook	236
Colebrook	Colebrook	2,559
Columbia	Colebrook	730
Concord	Concord	37,290
Conway	Conway	8,368
Cornish	Lebanon	1,656
Croydon	Lebanon	670
Dalton	Littleton	866
Danbury	New London	919
Danville	Exeter	2,975
Deerfield	Manchester	3,272
Deering	Concord	1,740

Town	Hospital Service Area	1995 Population
Derry	Derry	31,564
Dorchester	Plymouth	393
Dover	Dover	25,934
Dublin	Peterborough	1,510
Dummer	Berlin	330
Dunbarton	Concord	1,876
Durham	Dover	11,251
East Kingston	Exeter	1,566
Easton	Littleton	228
Eaton	Conway	365
Effingham	Wolfeboro	941
Ellsworth	Plymouth	83
Enfield	Lebanon	4,134
Epping	Exeter	5,466
Epsom	Concord	3,742
Errol	Berlin	304
Exeter	Exeter	12,899
Farmington	Rochester	5,930
Fitzwilliam	Keene	2,034
Fracestown	Peterborough	1,228
Franconia	Littleton	844
Franklin	Franklin	8,346
Freedom	Wolfeboro	956
Fremont	Exeter	2,940
Gilford	Laconia	5,947
Gilmanton	Laconia	2,696
Gilsum	Keene	742
Goffstown	Manchester	15,177
Gorham	Berlin	3,127
Goshen	Claremont	776
Grafton	Lebanon	951
Grantham	Lebanon	1,352
Greenfield	Peterborough	1,559
Greenland	Portsmouth	2,931
Greenville	Peterborough	2,230
Groton	Plymouth	335
Hampstead	Derry	7,262
Hampton	Exeter	12,792
Hampton Falls	Exeter	1,678
Hancock	Peterborough	1,624
Hanover	Lebanon	9,266
Harrisville	Keene	1,004
Harts Location	Conway	28
Haverhill	Haverhill	4,190
Hebron	Plymouth	405
Henniker	Concord	3,987
Hill	Franklin	852
Hillsborough	Concord	4,586
Hinsdale	Keene	4,008
Holderness	Plymouth	1,722
Hollis	Nashua	6,307
Hooksett	Manchester	9,198
Hopkinton	Concord	4,902
Hudson	Nashua	20,766
Jackson	Conway	690
Jaffrey	Peterborough	5,438
Jefferson	Lancaster	1,004

Town	Hospital Service Area	1995 Population
Keene	Keene	22,669
Kensington	Exeter	1,694
Kingston	Exeter	5,731
Laconia	Laconia	16,583
Lancaster	Lancaster	3,507
Landaff	Littleton	353
Langdon	Keene	622
Lebanon	Lebanon	12,519
Lee	Exeter	3,924
Lempster	Claremont	1,006
Lincoln	Littleton	1,362
Lisbon	Littleton	1,727
Litchfield	Nashua	6,352
Littleton	Littleton	6,011
Londonderry	Derry	20,810
Loudon	Concord	4,358
Lyman	Littleton	406
Lyme	Lebanon	1,506
Lyndeborough	Nashua	1,370
Madbury	Dover	1,489
Madison	Conway	1,782
Manchester	Manchester	101,900
Marlborough	Keene	2,025
Marlow	Keene	660
Mason	Nashua	1,256
Meredith	Laconia	4,942
Merrimack	Nashua	22,959
Middleton	Rochester	1,207
Milan	Berlin	1,343
Milford	Nashua	12,429
Milton	Rochester	3,791
Monroe	Haverhill	756
Mont Vernon	Nashua	1,918
Moultonborough	Laconia	3,139
Nashua	Nashua	81,370
Nelson	Keene	563
New Boston	Manchester	3,524
New Castle	Portsmouth	843
New Durham	Rochester	2,017
New Hampton	Laconia	1,723
New Ipswich	Peterborough	4,176
New London	New London	3,468
Newbury	New London	1,546
Newfields	Exeter	1,088
Newington	Portsmouth	721
Newmarket	Exeter	7,426
Newport	Lebanon	6,189
Newton	Salem	3,589
North Hampton	Exeter	3,871
Northfield	Laconia	4,452
Northumberland	Lancaster	2,612
Northwood	Concord	3,203
Nottingham	Exeter	3,102
Orange	Lebanon	252
Orford	Lebanon	1,037
Ossipee	Wolfeboro	3,366
Pelham	Salem	10,169

Town	Hospital Service Area	1995 Population
Pembroke	Concord	6,636
Peterborough	Peterborough	5,572
Piermont	Lebanon	646
Pittsburgh	Colebrook	923
Pittsfield	Concord	3,856
Plainfield	Lebanon	2,154
Plaistow	Salem	7,573
Plymouth	Plymouth	5,956
Portsmouth	Portsmouth	22,736
Randolph	Berlin	380
Raymond	Exeter	9,064
Richmond	Keene	928
Rindge	Peterborough	4,907
Rochester	Rochester	28,350
Rollinsford	Dover	2,704
Roxbury	Keene	260
Rumney	Plymouth	1,458
Rye	Portsmouth	4,671
Salem	Salem	26,788
Salisbury	Concord	1,091
Sanbornton	Laconia	2,225
Sandown	Derry	4,559
Sandwich	Laconia	1,109
Seabrook	Salem	6,740
Sharon	Peterborough	320
Shelburne	Berlin	433
Somersworth	Dover	11,498
South Hampton	Salem	756
Springfield	New London	847
Stark	Lancaster	528
Stewartstown	Colebrook	1,085
Stoddard	Keene	641
Strafford	Rochester	3,162
Stratford	Lancaster	967
Stratham	Exeter	5,524
Sugar Hill	Littleton	478
Sullivan	Keene	715
Sunapee	New London	2,620
Surry	Keene	697
Sutton	New London	1,478
Swanzey	Keene	6,590
Tamworth	Conway	2,224
Temple	Peterborough	1,238
Thornton	Plymouth	1,574
Tilton	Laconia	3,308
Troy	Keene	2,129
Tuftsboro	Wolfeboro	1,876
Unity	Claremont	1,418
Wakefield	Wolfeboro	3,179
Walpole	Keene	3,275
Warner	Concord	2,421
Warren	Lebanon	832
Washington	Concord	644
Waterville	Plymouth	210
Weare	Concord	6,681
Webster	Concord	1,426
Wentworth	Plymouth	658

Town	Hospital Service Area	1995 Population
Wentworth Location	Berlin	0
Westmoreland	Keene	1,654
Whitefield	Littleton	1,950
Wilmot	New London	978
Wilton	Nashua	3,215
Winchester	Keene	4,127
Windham	Derry	9,408
Windsor	Concord	115
Wolfeboro	Wolfeboro	5,089
Woodstock	Littleton	1,207

Community Designation by Hospital Service Area

Hospital Service Area	Town	1995 Population
Berlin	Berlin	11,857
	Dummer	330
	Errol	304
	Gorham	3,127
	Milan	1,343
	Randolph	380
	Shelburne	433
	Wentworth Location	0
Total		17,774
Claremont	Charlestown	4,782
	Claremont	13,900
	Goshen	776
	Lempster	1,006
	Unity	1,418
Total		21,882
Colebrook	Clarksville	236
	Colebrook	2,559
	Columbia	730
	Pittsburgh	923
	Stewartstown	1,085
Total		5,533
Concord	Allenstown	4,742
	Barnstead	3,186
	Boscawen	3,572
	Bow	5,919
	Bradford	1,415
	Canterbury	1,748
	Chichester	2,021
	Concord	37,290
	Deering	1,740
	Dunbarton	1,876
	Epsom	3,742
	Henniker	3,987
	Hillsborough	4,586
	Hopkinton	4,902
	Loudon	4,358
	Northwood	3,203
	Pembroke	6,636
	Pittsfield	3,856
	Salisbury	1,091
	Warner	2,421
	Washington	644
	Weare	6,681
	Webster	1,426
	Windsor	115
Total		111,157
Conway	Albany	570
	Bartlett	2,462
	Chatham	576
	Conway	8,368
	Eaton	365
	Harts Location	28
	Jackson	690
	Madison	1,782
	Tamworth	2,224
Total		17,065

Hospital Service Area	Town	1995 Population
Derry	Derry	31,564
	Hampstead	7,262
	Londonderry	20,810
	Sandown	4,559
	Windham	9,408
	Total	73,603
Dover	Barrington	6,596
	Dover	25,934
	Durham	11,251
	Madbury	1,489
	Rollinsford	2,704
	Somersworth	11,498
	Total	59,472
Exeter	Brentwood	2,836
	Danville	2,975
	East Kingston	1,566
	Epping	5,466
	Exeter	12,899
	Fremont	2,940
	Hampton	12,792
	Hampton Falls	1,678
	Kensington	1,694
	Kingston	5,731
	Lee	3,924
	Newfields	1,088
	Newmarket	7,426
	North Hampton	3,871
	Nottingham	3,102
	Raymond	9,064
	Stratham	5,524
	Total	84,576
Franklin	Bristol	2,636
	Franklin	8,346
	Hill	852
	Total	11,834
Haverhill	Bath	807
	Benton	322
	Haverhill	4,190
	Monroe	756
	Total	6,075
Keene	Acworth	774
	Alstead	1,761
	Chesterfield	3,232
	Fitzwilliam	2,034
	Gilsum	742
	Harrisville	1,004
	Hinsdale	4,008
	Keene	22,669
	Langdon	622
	Marlborough	2,025
	Marlow	660
	Nelson	563
	Richmond	928
	Roxbury	260
	Stoddard	641
	Sullivan	715
	Surry	697
	Swanzey	6,590

Community Designation by Hospital Service Area

Hospital Service Area	Town	1995 Population
Keene (continued)	Troy	2,129
	Walpole	3,275
	Westmoreland	1,654
	Winchester	4,127
	Total	61,110
Laconia	Alexandria	1,270
	Ashland	2,015
	Belmont	6,073
	Bridgewater	818
	Center Harbor	1,018
	Gilford	5,947
	Gilmanton	2,696
	Laconia	16,583
	Meredith	4,942
	Moultonborough	3,139
	New Hampton	1,723
	Northfield	4,452
	Sanbornton	2,225
	Sandwich	1,109
	Tilton	3,308
	Total	57,318
Lancaster	Jefferson	1,004
	Lancaster	3,507
	Northumberland	2,612
	Stark	528
	Stratford	967
	Total	8,618
Lebanon	Canaan	3,219
	Cornish	1,656
	Croydon	670
	Enfield	4,134
	Grafton	951
	Grantham	1,352
	Hanover	9,266
	Lebanon	12,519
	Lyme	1,506
	Newport	6,189
	Orange	252
	Orford	1,037
	Piermont	646
	Plainfield	2,154
	Warren	832
	Total	55,683
Littleton	Bethlehem	2,074
	Carroll	574
	Dalton	866
	Easton	228
	Franconia	844
	Landaff	353
	Lincoln	1,362
	Lisbon	1,727
	Littleton	6,011
	Lyman	406
	Sugar Hill	478
	Whitefield	1,950
	Woodstock	1,207
	Total	18,080

Hospital Service Area	Town	1995 Population
Manchester	Auburn	4,311
	Bedford	13,943
	Candia	3,643
	Chester	3,004
	Deerfield	3,272
	Goffstown	15,177
	Hooksett	9,198
	Manchester	101,900
	New Boston	3,524
Total		157,972
Nashua	Amherst	9,408
	Brookline	3,024
	Hollis	6,307
	Hudson	20,766
	Litchfield	6,352
	Lyndeborough	1,370
	Mason	1,256
	Merrimack	22,959
	Milford	12,429
	Mont Vernon	1,918
	Nashua	81,370
	Wilton	3,215
Total		170,374
New London	Andover	1,926
	Danbury	919
	New London	3,468
	Newbury	1,546
	Springfield	847
	Sunapee	2,620
	Sutton	1,478
	Wilmot	978
Total		13,782
Peterborough	Antrim	2,372
	Bennington	1,276
	Dublin	1,510
	Fracestown	1,228
	Greenfield	1,559
	Greenville	2,230
	Hancock	1,624
	Jaffrey	5,438
	New Ipswich	4,176
	Peterborough	5,572
	Rindge	4,907
	Sharon	320
	Temple	1,238
Total		33,450
Plymouth	Campton	2,437
	Dorchester	393
	Ellsworth	83
	Groton	335
	Hebron	405
	Holderness	1,722
	Plymouth	5,956
	Rumney	1,458
	Thornton	1,574
	Waterville	210
	Wentworth	658
Total		15,231

Hospital Service Area	Town	1995 Population
Portsmouth	Greenland	2,931
	New Castle	843
	Newington	721
	Portsmouth	22,736
	Rye	4,671
	Total	31,902
Rochester	Farmington	5,930
	Middleton	1,207
	Milton	3,791
	New Durham	2,017
	Rochester	28,350
	Strafford	3,162
	Total	44,457
Salem	Atkinson	5,685
	Newton	3,589
	Pelham	10,169
	Plaistow	7,573
	Salem	26,788
	Seabrook	6,740
	South Hampton	756
	Total	61,300
Wolfeboro	Alton	3,414
	Brookfield	524
	Effingham	941
	Freedom	956
	Ossipee	3,366
	Tuftonboro	1,876
	Wakefield	3,179
	Wolfeboro	5,089
	Total	23,910

Berlin HSA

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
I. Socioeconomic Risk Indicators				
A. % Receiving Medicaid / Food Stamps (1997, 1998)				
Children (Age <19)	9.1%	13.5%	636	10.39
Adults (Age 19+)	2.1%	3.7%	483	12.68
B. Unemployment (1995)	4.0%	5.8%	485	8.39
C. % Deaths <12 Yrs. Education				
People (Age 25-44)	15.4%	7.0%	3	-1.53
People (Age 45-64)	18.9%	42.5%	57	6.97
People (Age 65+)	28.8%	61.0%	495	20.25
D. % Births, Mother's Education <12 Yrs.				
Mothers (Age 18-24)	24.0%	24.3%	65	0.10
Mothers (Age 25+)	4.1%	6.0%	27	2.07
II. Infant Health (Age <1)				
Health Status, Behaviors, and Barriers				
Infant Mortality per 1,000 live births	5.3		5	
Low Birthweight Mortality	47.6		1	
Normal Birthweight Mortality	2.0		4	
Low Birthweight Births	5.2%	5.6%	41	0.44
Maternal Smoking	17.6%	24.3%	178	4.72
Late/No Prenatal Care Initiation	1.7%	1.2%	9	-0.89
Mother's Education < 12 years	10.9%	14.9%	109	3.43
Mother's Age < 20	7.3%	10.2%	75	3.01
Mother Unmarried	22.3%	29.8%	219	4.85
Medicaid Payment	20.7%	33.8%	247	8.72
III. Children (Age 1-14)				
A. Mortality Rate per 100,000				
All Causes	18.4		2	
Internal Causes	11.4		1	
Injury Causes	6.5		1	
Motor Vehicle Accident	2.3		1	
B. Hospitalization Rate per 100,000				
All Admissions	1,669.9	1,970.8	331	1.36
ACS Admissions	447.0	660.9	111	1.86
Marker Condition Admissions	114.9	125.0	21	0.17
ACS/Marker Condition Admissions	3.9	5.3		
Injury Admissions	241.6	345.3	58	1.22
IV. Adolescents (Age 15-17)				
A. Mortality Rate per 100,000				
All Causes	43.1		0	
Internal Causes	10.4		0	
Injury Causes	32.2		0	
Total Unintentional	19.2		0	
Motor Vehicle Accident	17.0		0	
Total Intentional	12.6		0	
Suicide	9.6		0	
Firearm	9.1		0	
B. Hospitalization Rate per 100,000				
All Admissions	3385.0	3655.4	140	0.41
ACS Admissions	323.4		17	
Marker Condition Admissions	185.0		5	
ACS/Marker Condition Admissions	1.7	3.4		
Injury Admissions	640.8	887.7	34	0.86
Obstetric Admissions	1424.2		17	

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Birth-related Rates				
Birth Rate per 1,000 Females	14.4		17	
Low Birthweight Births	8.7%	17.6%	3	1.30
Maternal Smoking	35.0%	17.6%	3	-1.50
Late/No Prenatal Care Initiation	6.1%	0.0%	0	-1.05
Mother's Education < 12 years	92.0%	100.0%	17	1.21
Mother Unmarried	93.8%	94.1%	16	0.05
Medicaid Payment	53.3%	35.3%	6	-1.49
V. Young Adult (Age 18-24)				
A. Mortality Rate per 100,000				
All Causes	53.8		6	
Internal Causes	10.7		0	
Injury Causes	42.5		6	
Total Unintentional	24.9		5	
Motor Vehicle Accident	21.0		4	
Total Intentional	16.1		1	
Suicide	14.4		1	
Firearm	10.3		0	
B. Hospitalization Rate per 100,000				
All Admissions	5,740.2	9539.9	736	6.42
ACS Admissions	324.4	1036.9	80	4.92
Marker Condition Admissions	120.4		7	
ACS/Marker Condition Admissions	2.7	11.4		
Injury Admissions	483.2	933.2	72	2.55
Obstetric Admissions	6,129.9	6909.6	256	0.88
C. Birth-related Rates				
Birth Rate per 1,000 Females	62.5	72.3	268	1.10
Low Birthweight Births	5.7%	6.0%	16	0.17
Maternal Smoking	30.0%	35.1%	94	1.80
Late/No Prenatal Care Initiation	3.0%	2.3%	6	-0.72
Mother's Education < 12 years	24.0%	24.3%	65	0.10
Mother Unmarried	51.3%	53.4%	143	0.66
Medicaid Payment	46.7%	59.9%	160	4.32
VI. Adults (Age 25-44)				
A. Mortality Rate per 100,000				
All Causes	113.6	175.1	44	1.30
Internal Causes	69.7	79.6	20	0.27
Heart Disease	14.1		4	
Cancer	24.8		4	
Breast (Female)	7.9		1	
Cervix			1	
Colon	1.1		0	
Lung	3.4		0	
Prostate			0	
Diabetes-related Mortality	4.3		1	
Injury Causes	41.7	91.5	23	1.73
Total Unintentional	20.4		13	
Motor Vehicle Accident	11.0		9	
Total Intentional	17.7		9	
Suicide	15.2		6	
Firearm	9.5		4	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	56.3		8	
Cervix	12.3		2	
Colon	3.6		0	
Lung	5.3		0	
Prostate			0	
C. Hospitalization Rate per 100,000				
All Admissions	7,719.6	9894.5	2486	5.78
ACS Admissions	409.6	768.2	193	3.98
Marker Condition Admissions	137.1	171.1	43	0.65
ACS/Marker Condition Admissions	3.0	4.5		
Injury Admissions	577.9	919.4	231	3.19
Obstetric Admissions	5,672.3	3544.4	445	-4.61

1993-1997				
	State Rate	HSA Rate	Number	Test Statistic
D. Birth-related Rates				
Birth Rate per 1,000 Females	58.8	35.8	449	-4.91
Low Birthweight Births	4.9%	4.9%	22	-0.03
Maternal Smoking	13.0%	18.1%	81	3.23
Late/No Prenatal Care Initiation	1.1%	0.7%	3	-0.80
Mother's Education < 12 years	4.1%	6.1%	27	2.08
Mother Unmarried	10.5%	13.1%	59	1.83
Medicaid Payment	10.9%	17.9%	80	4.74
VII. Middle Age (Age 45-64)				
A. Mortality Rate per 100,000				
All Causes	589.5	681.6	134	0.75
Internal Causes	547.9	635.8	125	0.75
Heart Disease	148.6	208.5	41	0.98
Cancer	245.8	254.3	50	0.11
Breast (Female)	47.9		5	
Cervix	5.8		0	
Colon	16.5		2	
Lung	78.0		11	
Prostate	7.5		1	
Chronic Obstructive Pulmonary Disease	22.8		2	
Diabetes-related Mortality	52.8		18	
Injury Causes	39.0		8	
Total Unintentional	19.9		3	
Motor Vehicle Accident	8.6		2	
Total Intentional	17.8		5	
Suicide	16.0		5	
Firearm	10.8		4	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	259.6		17	
Cervix	16.5		1	
Colon	39.9		9	
Lung	99.2		19	
Prostate	164.2		17	
C. Hospitalization Rate per 100,000				
All Admissions	9,642.3	14913.5	2932	11.20
ACS Admissions	1,064.5	2019.3	397	5.83
Marker Condition Admissions	468.8	569.7	112	0.93
ACS/Marker Condition Admissions	2.3	3.5		
Injury Admissions	758.8	1236.0	243	3.45
VIII. Senior (Age 65-74)				
A. Mortality Rate per 100,000				
All Causes	2580.3	2738.5	221	0.40
Internal Causes	2523.4	2651.8	214	0.33
Heart Disease	749.2	768.3	62	0.09
Cancer	958.2	1090.5	88	0.55
Breast (Female)	127.4		4	
Cervix			0	
Colon	77.0		10	
Lung	311.2	334.6	27	0.17
Prostate	102.8		6	
Cerebrovascular Disease	124.3		9	
Chronic Obstructive Pulmonary Disease	171.8		8	
Diabetes-related Mortality	296.4	433.7	35	1.01
Injury Causes	53.3		7	
Total Unintentional	39.6		6	
Falls	11.8		1	
Motor Vehicle Accident	15.1		3	
Total Intentional	13.5		1	
Suicide	12.6		1	
Firearm	9.6		1	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	443.1		9	
Cervix	11.5		1	
Colon	185.9		16	
Lung	356.6	297.4	24	-0.40
Prostate	919.6	810.8	30	-0.31

1993-1997				
	State Rate	HSA Rate	Number	Test Statistic
C. Hospitalization Rate per 100,000				
All Admissions	23,993.5	36617.1	2955	11.88
ACS Admissions	3,877.2	5464.7	441	3.30
Marker Condition Admissions	1,323.3	2255.3	182	3.28
ACS/Marker Condition Admissions	2.9	2.4		
Injury Admissions	1,682.1	3035.9	245	4.23
IX. Elderly (Age 75 +)				
A. Mortality Rate per 100,000				
All Causes	8574.0	8763.4	613	0.25
Internal Causes	8410.7	8591.9	601	0.24
Heart Disease	3107.9	3102.2	217	-0.01
Cancer	1563.9	1544.0	108	-0.06
Breast (Female)	179.3		7	
Cervix			0	
Colon	169.8		10	
Lung	354.9		16	
Prostate	423.0		10	
Cerebrovascular Disease	814.5	643.3	45	-0.71
Chronic Obstructive Pulmonary Disease	489.0	557.5	39	0.37
Diabetes-related Mortality	764.8	1043.6	73	1.20
Injury Causes	155.1		12	
Total Unintentional	136.1		12	
Falls	59.5		5	
Motor Vehicle Accident	26.5		1	
Total Intentional	18.6		0	
Suicide	16.4		0	
Firearm	11.4		0	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	421.0		19	
Cervix	13.5		1	
Colon	331.7	457.5	32	0.82
Lung	313.7	343.1	24	0.20
Prostate	991.7	1156.3	27	0.36
C. Hospitalization Rate per 100,000				
All Admissions	37,030.1	57469.6	4020	15.83
ACS Admissions	7,967.8	11694.1	818	5.15
Marker Condition Admissions	3,224.7	4660.5	326	3.04
ACS/Marker Condition Admissions	2.5	2.5		
Injury Admissions	3,731.4	5961.4	417	4.40

Claremont HSA

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
I. Socioeconomic Risk Indicators				
A. % Receiving Medicaid / Food Stamps (1997, 1998)				
Children (Age <19)	9.1%	15.0%	911	15.84
Adults (Age 19+)	2.1%	3.7%	581	14.02
B. Unemployment (1995)	4.0%	3.4%	386	-3.26
C. % Deaths <12 Yrs. Education				
People (Age 25-44)	15.4%	31.7%	13	2.90
People (Age 45-64)	18.9%	35.0%	64	5.53
People (Age 65+)	28.8%	44.3%	417	10.49
D. % Births, Mother's Education <12 Yrs.				
Mothers (Age 18-24)	24.0%	29.7%	151	3.00
Mothers (Age 25+)	4.1%	8.4%	57	5.63
II. Infant Health (Age <1)				
Health Status, Behaviors, and Barriers				
Infant Mortality per 1,000 live births	5.3		12	
Low Birthweight Mortality	47.6		3	
Normal Birthweight Mortality	2.0		8	
Low Birthweight Births	5.2%	6.8%	86	2.46
Maternal Smoking	17.6%	27.7%	350	9.44
Late/No Prenatal Care Initiation	1.7%	2.5%	31	2.25
Mother's Education < 12 years	10.9%	21.7%	274	12.24
Mother's Age < 20	7.3%	14.9%	190	10.42
Mother Unmarried	22.3%	34.7%	442	10.60
Medicaid Payment	20.7%	40.0%	486	16.60
III. Children (Age 1-14)				
A. Mortality Rate per 100,000				
All Causes	18.4		1	
Internal Causes	11.4		0	
Injury Causes	6.5		1	
Motor Vehicle Accident	2.3		1	
B. Hospitalization Rate per 100,000				
All Admissions	1,669.9	1,744.1	381	0.38
ACS Admissions	447.0	402.8	88	-0.44
Marker Condition Admissions	114.9	114.4	25	-0.01
ACS/Marker Condition Admissions	3.9	3.5		
Injury Admissions	241.6	283.8	62	0.57
IV. Adolescents (Age 15-17)				
A. Mortality Rate per 100,000				
All Causes	43.1		1	
Internal Causes	10.4		0	
Injury Causes	32.2		1	
Total Unintentional	19.2		0	
Motor Vehicle Accident	17.0		0	
Total Intentional	12.6		1	
Suicide	9.6		0	
Firearm	9.1		1	
B. Hospitalization Rate per 100,000				
All Admissions	3385.0	5129.3	238	2.94
ACS Admissions	323.4		15	
Marker Condition Admissions	185.0		8	
ACS/Marker Condition Admissions	1.7	1.9		
Injury Admissions	640.8	1099.1	51	1.75
Obstetric Admissions	1424.2	3220.0	71	3.18
C. Birth-related Rates				
Birth Rate per 1,000 Females	14.4	33.6	74	3.37
Low Birthweight Births	8.7%	14.9%	11	1.87
Maternal Smoking	35.0%	41.9%	31	1.24
Late/No Prenatal Care Initiation	6.1%	11.1%	8	1.78
Mother's Education < 12 years	92.0%	87.8%	65	-1.33
Mother Unmarried	93.8%	89.2%	66	-1.65
Medicaid Payment	53.3%	69.4%	50	2.74

1993-1997				
	State Rate	HSA Rate	Number	Test Statistic
V. Young Adult (Age 18-24)				
A. Mortality Rate per 100,000				
All Causes	53.8		12	
Internal Causes	10.7		1	
Injury Causes	42.5		11	
Total Unintentional	24.9		9	
Motor Vehicle Accident	21.0		8	
Total Intentional	16.1		2	
Suicide	14.4		1	
Firearm	10.3		2	
B. Hospitalization Rate per 100,000				
All Admissions	5,740.2	9735.4	920	7.47
ACS Admissions	324.4	455.0	43	1.00
Marker Condition Admissions	120.4		19	
ACS/Marker Condition Admissions	2.7	2.3		
Injury Admissions	483.2	645.5	61	1.02
Obstetric Admissions	6,129.9	11328.8	503	6.46
C. Birth-related Rates				
Birth Rate per 1,000 Females	62.5	115.1	511	6.47
Low Birthweight Births	5.7%	7.0%	36	1.29
Maternal Smoking	30.0%	33.5%	170	1.68
Late/No Prenatal Care Initiation	3.0%	2.0%	10	-1.37
Mother's Education < 12 years	24.0%	29.7%	151	3.00
Mother Unmarried	51.3%	48.4%	247	-1.31
Medicaid Payment	46.7%	56.5%	279	4.34
VI. Adults (Age 25-44)				
A. Mortality Rate per 100,000				
All Causes	113.6	129.2	41	0.37
Internal Causes	69.7	85.1	27	0.47
Heart Disease	14.1		5	
Cancer	24.8		13	
Breast (Female)	7.9		2	
Cervix			1	
Colon	1.1		1	
Lung	3.4		2	
Prostate			0	
Diabetes-related Mortality	4.3		0	
Injury Causes	41.7		13	
Total Unintentional	20.4		4	
Motor Vehicle Accident	11.0		1	
Total Intentional	17.7		9	
Suicide	15.2		8	
Firearm	9.5		5	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	56.3		11	
Cervix	12.3		4	
Colon	3.6		2	
Lung	5.3		3	
Prostate			0	
C. Hospitalization Rate per 100,000				
All Admissions	7,719.6	8840.6	2806	3.35
ACS Admissions	409.6	513.5	163	1.30
Marker Condition Admissions	137.1	151.2	48	0.30
ACS/Marker Condition Admissions	3.0	3.4		
Injury Admissions	577.9	749.8	238	1.81
Obstetric Admissions	5,672.3	4149.2	673	-3.75

	1993-1997		Number	Test Statistic
	State Rate	HSA Rate		
D. Birth-related Rates				
Birth Rate per 1,000 Females	58.8	42.4	688	-3.97
Low Birthweight Births	4.9%	5.7%	39	0.89
Maternal Smoking	13.0%	21.9%	149	6.97
Late/No Prenatal Care Initiation	1.1%	1.8%	12	1.79
Mother's Education < 12 years	4.1%	8.4%	57	5.63
Mother Unmarried	10.5%	18.6%	128	6.94
Medicaid Payment	10.9%	24.1%	156	10.73
VII. Middle Age (Age 45-64)				
A. Mortality Rate per 100,000				
All Causes	589.5	766.8	184	1.60
Internal Causes	547.9	716.8	172	1.59
Heart Disease	148.6	208.4	50	1.08
Cancer	245.8	287.6	69	0.58
Breast (Female)	47.9		7	
Cervix	5.8		0	
Colon	16.5		3	
Lung	78.0	100.0	24	0.55
Prostate	7.5		0	
Chronic Obstructive Pulmonary Disease	22.8		7	
Diabetes-related Mortality	52.8		10	
Injury Causes	39.0		12	
Total Unintentional	19.9		5	
Motor Vehicle Accident	8.6		5	
Total Intentional	17.8		6	
Suicide	16.0		5	
Firearm	10.8		6	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	259.6	266.4	32	0.07
Cervix	16.5		1	
Colon	39.9		10	
Lung	99.2	120.9	29	0.48
Prostate	164.2		8	
C. Hospitalization Rate per 100,000				
All Admissions	9,642.3	12173.4	2921	5.94
ACS Admissions	1,064.5	1433.6	344	2.49
Marker Condition Admissions	468.8	537.6	129	0.70
ACS/Marker Condition Admissions	2.3	2.7		
Injury Admissions	758.8	821.0	197	0.50
VIII. Senior (Age 65-74)				
A. Mortality Rate per 100,000				
All Causes	2580.3	2868.5	253	0.76
Internal Causes	2523.4	2721.1	240	0.53
Heart Disease	749.2	839.0	74	0.44
Cancer	958.2	975.1	86	0.07
Breast (Female)	127.4		7	
Cervix			1	
Colon	77.0		5	
Lung	311.2	249.4	22	-0.47
Prostate	102.8		5	
Cerebrovascular Disease	124.3		12	
Chronic Obstructive Pulmonary Disease	171.8		19	
Diabetes-related Mortality	296.4	340.1	30	0.34
Injury Causes	53.3		12	
Total Unintentional	39.6		9	
Falls	11.8		3	
Motor Vehicle Accident	15.1		4	
Total Intentional	13.5		3	
Suicide	12.6		3	
Firearm	9.6		2	

1993-1997				
	State Rate	HSA Rate	Number	Test Statistic
B. Cancer Incidence Rate per 100,000				
Breast (Female)	443.1		17	
Cervix	11.5		1	
Colon	185.9		10	
Lung	356.6	294.8	26	-0.44
Prostate	919.6	666.7	27	-0.75
C. Hospitalization Rate per 100,000				
All Admissions	23,993.5	27755.1	2448	3.70
ACS Admissions	3,877.2	4977.3	439	2.39
Marker Condition Admissions	1,323.3	1371.9	121	0.18
ACS/Marker Condition Admissions	2.9	3.6		
Injury Admissions	1,682.1	1972.8	174	0.95
IX. Elderly (Age 75 +)				
A. Mortality Rate per 100,000				
All Causes	8574.0	9479.2	728	1.27
Internal Causes	8410.7	9244.8	710	1.18
Heart Disease	3107.9	2812.5	216	-0.67
Cancer	1563.9	1835.9	141	0.86
Breast (Female)	179.3		18	
Cervix			0	
Colon	169.8		15	
Lung	354.9	442.7	34	0.58
Prostate	423.0		18	
Cerebrovascular Disease	814.5	781.3	60	-0.15
Chronic Obstructive Pulmonary Disease	489.0	507.8	39	0.11
Diabetes-related Mortality	764.8	1002.6	77	1.07
Injury Causes	155.1		17	
Total Unintentional	136.1		15	
Falls	59.5		6	
Motor Vehicle Accident	26.5		2	
Total Intentional	18.6		2	
Suicide	16.4		2	
Firearm	11.4		1	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	421.0		18	
Cervix	13.5		1	
Colon	331.7		19	
Lung	313.7		18	
Prostate	991.7	738.1	21	-0.61
C. Hospitalization Rate per 100,000				
All Admissions	37,030.1	40468.8	3108	2.79
ACS Admissions	7,967.8	9401.0	722	2.07
Marker Condition Admissions	3,224.7	3932.3	302	1.57
ACS/Marker Condition Admissions	2.5	2.4		
Injury Admissions	3,731.4	3737.0	287	0.01

Colebrook HSA

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
I. Socioeconomic Risk Indicators				
A. % Receiving Medicaid / Food Stamps (1997, 1998)				
Children (Age <19)	9.1%	16.6%	244	9.89
Adults (Age 19+)	2.1%	4.5%	182	10.67
B. Unemployment (1995)				
	4.0%	7.0%	184	7.86
C. % Deaths <12 Yrs. Education				
People (Age 25-44)	15.4%	16.7%	2	0.12
People (Age 45-64)	18.9%	26.4%	14	1.39
People (Age 65+)	28.8%	34.9%	88	2.14
D. % Births, Mother's Education <12 Yrs.				
Mothers (Age 18-24)	24.0%	15.8%	15	-1.87
Mothers (Age 25+)	4.1%	5.2%	9	0.75
II. Infant Health (Age <1)				
Health Status, Behaviors, and Barriers				
Infant Mortality per 1,000 live births	5.3		1	
Low Birthweight Mortality	47.6		1	
Normal Birthweight Mortality	2.0		0	
Low Birthweight Births	5.2%	4.0%	11	-0.90
Maternal Smoking	17.6%	20.0%	55	1.04
Late/No Prenatal Care Initiation	1.7%	1.1%	3	-0.72
Mother's Education < 12 years	10.9%	11.0%	30	0.03
Mother's Age < 20	7.3%	8.0%	22	0.44
Mother Unmarried	22.3%	34.9%	96	5.00
Medicaid Payment	20.7%	33.3%	91	5.14
III. Children (Age 1-14)				
A. Mortality Rate per 100,000				
All Causes	18.4		1	
Internal Causes	11.4		0	
Injury Causes	6.5		1	
Motor Vehicle Accident	2.3		1	
B. Hospitalization Rate per 100,000				
All Admissions	1,669.9	1,361.9	70	-0.77
ACS Admissions	447.0		18	
Marker Condition Admissions	114.9		5	
ACS/Marker Condition Admissions	3.9	3.6		
Injury Admissions	241.6		7	
IV. Adolescents (Age 15-17)				
A. Mortality Rate per 100,000				
All Causes	43.1		2	
Internal Causes	10.4		0	
Injury Causes	32.2		2	
Total Unintentional	19.2		2	
Motor Vehicle Accident	17.0		1	
Total Intentional	12.6		0	
Suicide	9.6		0	
Firearm	9.1		0	
B. Hospitalization Rate per 100,000				
All Admissions	3385.0	4117.6	49	0.63
ACS Admissions	323.4		4	
Marker Condition Admissions	185.0		1	
ACS/Marker Condition Admissions	1.7	4.0		
Injury Admissions	640.8		13	
Obstetric Admissions	1424.2		4	

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
C. Birth-related Rates				
Birth Rate per 1,000 Females	14.4		5	
Low Birthweight Births	8.7%	20.0%	1	0.89
Maternal Smoking	35.0%	20.0%	1	-0.70
Late/No Prenatal Care Initiation	6.1%	0.0%	0	-0.57
Mother's Education < 12 years	92.0%	100.0%	5	0.66
Mother Unmarried	93.8%	80.0%	4	-1.28
Medicaid Payment	53.3%	40.0%	2	-0.60
V. Young Adult (Age 18-24)				
A. Mortality Rate per 100,000				
All Causes	53.8		4	
Internal Causes	10.7		0	
Injury Causes	42.5		4	
Total Unintentional	24.9		3	
Motor Vehicle Accident	21.0		2	
Total Intentional	16.1		1	
Suicide	14.4		1	
Firearm	10.3		1	
B. Hospitalization Rate per 100,000				
All Admissions	5,740.2	8708.3	209	2.80
ACS Admissions	324.4		6	
Marker Condition Admissions	120.4		4	
ACS/Marker Condition Admissions	2.7	1.5		
Injury Admissions	483.2		17	
Obstetric Admissions	6,129.9	7792.2	90	1.05
C. Birth-related Rates				
Birth Rate per 1,000 Females	62.5	82.3	95	1.24
Low Birthweight Births	5.7%	4.2%	4	-0.63
Maternal Smoking	30.0%	32.6%	31	0.55
Late/No Prenatal Care Initiation	3.0%	1.1%	1	-1.12
Mother's Education < 12 years	24.0%	15.8%	15	-1.87
Mother Unmarried	51.3%	49.5%	47	-0.36
Medicaid Payment	46.7%	52.6%	50	1.15
VI. Adults (Age 25-44)				
A. Mortality Rate per 100,000				
All Causes	113.6		13	
Internal Causes	69.7		8	
Heart Disease	14.1		1	
Cancer	24.8		1	
Breast (Female)	7.9		0	
Cervix			0	
Colon	1.1		0	
Lung	3.4		0	
Prostate			0	
Diabetes-related Mortality	4.3		0	
Injury Causes	41.7		5	
Total Unintentional	20.4		1	
Motor Vehicle Accident	11.0		1	
Total Intentional	17.7		4	
Suicide	15.2		3	
Firearm	9.5		2	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	56.3		1	
Cervix	12.3		1	
Colon	3.6		0	
Lung	5.3		1	
Prostate			0	
C. Hospitalization Rate per 100,000				
All Admissions	7,719.6	8337.6	652	0.92
ACS Admissions	409.6	549.9	43	0.87
Marker Condition Admissions	137.1		16	
ACS/Marker Condition Admissions	3.0	2.7		
Injury Admissions	577.9	780.1	61	1.05
Obstetric Admissions	5,672.3	3938.6	154	-2.10

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
D. Birth-related Rates				
Birth Rate per 1,000 Females	58.8	44.5	174	-1.70
Low Birthweight Births	4.9%	3.5%	6	-0.89
Maternal Smoking	13.0%	12.6%	22	-0.12
Late/No Prenatal Care Initiation	1.1%	1.2%	2	0.13
Mother's Education < 12 years	4.1%	5.2%	9	0.75
Mother Unmarried	10.5%	25.3%	44	6.37
Medicaid Payment	10.9%	22.1%	38	4.69
VII. Middle Age (Age 45-64)				
A. Mortality Rate per 100,000				
All Causes	589.5	898.7	55	1.41
Internal Causes	547.9	784.3	48	1.12
Heart Disease	148.6		10	
Cancer	245.8		19	
Breast (Female)	47.9		1	
Cervix	5.8		0	
Colon	16.5		2	
Lung	78.0		5	
Prostate	7.5		0	
Chronic Obstructive Pulmonary Disease	22.8		4	
Diabetes-related Mortality	52.8		6	
Injury Causes	39.0		7	
Total Unintentional	19.9		2	
Motor Vehicle Accident	8.6		1	
Total Intentional	17.8		4	
Suicide	16.0		1	
Firearm	10.8		5	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	259.6		7	
Cervix	16.5		0	
Colon	39.9		4	
Lung	99.2		6	
Prostate	164.2		2	
C. Hospitalization Rate per 100,000				
All Admissions	9,642.3	12973.9	794	3.95
ACS Admissions	1,064.5	1862.7	114	2.72
Marker Condition Admissions	468.8	490.2	30	0.11
ACS/Marker Condition Admissions	2.3	3.8		
Injury Admissions	758.8	768.0	47	0.04
VIII. Senior (Age 65-74)				
A. Mortality Rate per 100,000				
All Causes	2580.3	3067.7	77	0.69
Internal Causes	2523.4	3067.7	77	0.78
Heart Disease	749.2	876.5	22	0.33
Cancer	958.2	916.3	23	-0.10
Breast (Female)	127.4		0	
Cervix			1	
Colon	77.0		4	
Lung	311.2		7	
Prostate	102.8		0	
Cerebrovascular Disease	124.3		1	
Chronic Obstructive Pulmonary Disease	171.8		7	
Diabetes-related Mortality	296.4		11	
Injury Causes	53.3		0	
Total Unintentional	39.6		0	
Falls	11.8		0	
Motor Vehicle Accident	15.1		0	
Total Intentional	13.5		0	
Suicide	12.6		0	
Firearm	9.6		0	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	443.1		4	
Cervix	11.5		0	
Colon	185.9		4	
Lung	356.6		8	
Prostate	919.6		6	

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Hospitalization Rate per 100,000				
All Admissions	23,993.5	24382.5	612	0.20
ACS Admissions	3,877.2	5099.6	128	1.42
Marker Condition Admissions	1,323.3	1633.5	41	0.61
ACS/Marker Condition Admissions	2.9	3.1		
Injury Admissions	1,682.1	1155.4	29	-0.92
IX. Elderly (Age 75 +)				
A. Mortality Rate per 100,000				
All Causes	8574.0	8229.9	179	-0.26
Internal Causes	8410.7	8183.9	178	-0.17
Heart Disease	3107.9	2620.7	57	-0.59
Cancer	1563.9	1149.4	25	-0.70
Breast (Female)	179.3		4	
Cervix			0	
Colon	169.8		2	
Lung	354.9		9	
Prostate	423.0		3	
Cerebrovascular Disease	814.5		12	
Chronic Obstructive Pulmonary Disease	489.0		11	
Diabetes-related Mortality	764.8		8	
Injury Causes	155.1		1	
Total Unintentional	136.1		1	
Falls	59.5		0	
Motor Vehicle Accident	26.5		1	
Total Intentional	18.6		0	
Suicide	16.4		0	
Firearm	11.4		0	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	421.0		2	
Cervix	13.5		0	
Colon	331.7		9	
Lung	313.7		4	
Prostate	991.7		8	
C. Hospitalization Rate per 100,000				
All Admissions	37,030.1	37885.1	824	0.37
ACS Admissions	7,967.8	10942.5	238	2.29
Marker Condition Admissions	3,224.7	2160.9	47	-1.26
ACS/Marker Condition Admissions	2.5	5.1		
Injury Admissions	3,731.4	2988.5	65	-0.82

Concord HSA

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
I. Socioeconomic Risk Indicators				
A. % Receiving Medicaid / Food Stamps (1997, 1998)				
Children (Age <19)	9.1%	8.7%	2,755	-2.88
Adults (Age 19+)	2.1%	2.2%	1,769	2.49
B. Unemployment (1995)				
	4.0%	2.7%	1,782	-16.9
C. % Deaths <12 Yrs. Education				
People (Age 25-44)	15.4%	12.4%	26	-1.18
People (Age 45-64)	18.9%	14.3%	92	-2.98
People (Age 65+)	28.8%	18.7%	647	-13.19
D. % Births, Mother's Education <12 Yrs.				
Mothers (Age 18-24)	24.0%	20.0%	353	-3.90
Mothers (Age 25+)	4.1%	4.1%	213	-0.19
II. Infant Health (Age <1)				
Health Status, Behaviors, and Barriers				
Infant Mortality per 1,000 live births	5.3	5.1	37	-0.16
Low Birthweight Mortality	47.6	55.6	21	0.73
Normal Birthweight Mortality	2.0		8	
Low Birthweight Births	5.2%	5.3%	378	0.19
Maternal Smoking	17.6%	19.0%	1366	3.05
Late/No Prenatal Care Initiation	1.7%	1.3%	92	-2.00
Mother's Education < 12 years	10.9%	9.9%	708	-2.90
Mother's Age < 20	7.3%	7.0%	502	-1.11
Mother Unmarried	22.3%	21.5%	1546	-1.76
Medicaid Payment	20.7%	17.6%	1244	-6.58
III. Children (Age 1-14)				
A. Mortality Rate per 100,000				
All Causes	18.4	23.1	26	0.51
Internal Causes	11.4		14	
Injury Causes	6.5		12	
Motor Vehicle Accident	2.3		6	
B. Hospitalization Rate per 100,000				
All Admissions	1,669.9	1,532.6	1725	-1.61
ACS Admissions	447.0	351.8	396	-2.14
Marker Condition Admissions	114.9	124.4	140	0.42
ACS/Marker Condition Admissions	3.9	2.8		
Injury Admissions	241.6	225.7	254	-0.49
IV. Adolescents (Age 15-17)				
A. Mortality Rate per 100,000				
All Causes	43.1		11	
Internal Causes	10.4		2	
Injury Causes	32.2		9	
Total Unintentional	19.2		5	
Motor Vehicle Accident	17.0		5	
Total Intentional	12.6		4	
Suicide	9.6		3	
Firearm	9.1		3	
B. Hospitalization Rate per 100,000				
All Admissions	3385.0	3052.2	704	-1.25
ACS Admissions	323.4	264.5	61	-0.71
Marker Condition Admissions	185.0	190.8	44	0.09
ACS/Marker Condition Admissions	1.7	1.4		
Injury Admissions	640.8	572.3	132	-0.58
Obstetric Admissions	1424.2	1317.7	152	-0.43

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Birth-related Rates				
Birth Rate per 1,000 Females	14.4	13.2	152	-0.50
Low Birthweight Births	8.7%	8.6%	13	-0.08
Maternal Smoking	35.0%	38.8%	59	0.98
Late/No Prenatal Care Initiation	6.1%	2.9%	4	-1.58
Mother's Education < 12 years	92.0%	92.1%	140	0.04
Mother Unmarried	93.8%	92.1%	140	-0.87
Medicaid Payment	53.3%	41.6%	62	-2.87
V. Young Adult (Age 18-24)				
A. Mortality Rate per 100,000				
All Causes	53.8	76.7	41	1.02
Internal Causes	10.7		10	
Injury Causes	42.5	54.3	29	0.59
Total Unintentional	24.9		15	
Motor Vehicle Accident	21.0		13	
Total Intentional	16.1		12	
Suicide	14.4		11	
Firearm	10.3		11	
B. Hospitalization Rate per 100,000				
All Admissions	5,740.2	6082.2	3250	1.52
ACS Admissions	324.4	336.9	180	0.23
Marker Condition Admissions	120.4	155.3	83	1.04
ACS/Marker Condition Admissions	2.7	2.2		
Injury Admissions	483.2	458.5	245	-0.37
Obstetric Admissions	6,129.9	6752.7	1726	1.86
C. Birth-related Rates				
Birth Rate per 1,000 Females	62.5	69.1	1766	1.94
Low Birthweight Births	5.7%	6.0%	105	0.46
Maternal Smoking	30.0%	30.7%	543	0.65
Late/No Prenatal Care Initiation	3.0%	2.6%	42	-1.06
Mother's Education < 12 years	24.0%	20.0%	353	-3.90
Mother Unmarried	51.3%	49.7%	877	-1.38
Medicaid Payment	46.7%	39.0%	674	-6.46
VI. Adults (Age 25-44)				
A. Mortality Rate per 100,000				
All Causes	113.6	120.9	214	0.41
Internal Causes	69.7	70.1	124	0.03
Heart Disease	14.1	20.3	36	1.00
Cancer	24.8	17.5	31	-0.87
Breast (Female)	7.9		7	
Cervix			2	
Colon	1.1		2	
Lung	3.4		3	
Prostate			0	
Diabetes-related Mortality	4.3		9	
Injury Causes	41.7	48.6	86	0.64
Total Unintentional	20.4	18.6	33	-0.23
Motor Vehicle Accident	11.0		15	
Total Intentional	17.7	26.0	46	1.17
Suicide	15.2	24.9	44	1.47
Firearm	9.5	11.9	21	0.47
B. Cancer Incidence Rate per 100,000				
Breast (Female)	56.3	63.0	56	0.38
Cervix	12.3		7	
Colon	3.6		6	
Lung	5.3		8	
Prostate			1	
C. Hospitalization Rate per 100,000				
All Admissions	7,719.6	8160.6	14441	3.11
ACS Admissions	409.6	429.5	760	0.58
Marker Condition Admissions	137.1	158.2	280	1.07
ACS/Marker Condition Admissions	3.0	2.7		
Injury Admissions	577.9	587.1	1039	0.23
Obstetric Admissions	5,672.3	5698.9	5068	0.15

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
D. Birth-related Rates				
Birth Rate per 1,000 Females	58.8	59.4	5278	0.32
Low Birthweight Births	4.9%	4.9%	260	0.01
Maternal Smoking	13.0%	14.5%	763	3.26
Late/No Prenatal Care Initiation	1.1%	0.9%	46	-1.06
Mother's Education < 12 years	4.1%	4.1%	213	-0.19
Mother Unmarried	10.5%	10.0%	527	-1.21
Medicaid Payment	10.9%	9.7%	507	-2.78
VII. Middle Age (Age 45-64)				
A. Mortality Rate per 100,000				
All Causes	589.5	568.0	655	-0.43
Internal Causes	547.9	521.2	601	-0.55
Heart Disease	148.6	155.2	179	0.26
Cancer	245.8	215.9	249	-0.92
Breast (Female)	47.9	46.7	27	-0.06
Cervix	5.8		1	
Colon	16.5		12	
Lung	78.0	72.8	84	-0.28
Prostate	7.5		0	
Chronic Obstructive Pulmonary Disease	22.8	33.8	39	1.11
Diabetes-related Mortality	52.8	58.1	67	0.35
Injury Causes	39.0	45.1	52	0.47
Total Unintentional	19.9	26.0	30	0.66
Motor Vehicle Accident	8.6		13	
Total Intentional	17.8	19.1	22	0.14
Suicide	16.0		19	
Firearm	10.8		15	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	259.6	280.0	162	0.43
Cervix	16.5		9	
Colon	39.9	29.5	34	-0.79
Lung	99.2	95.4	110	-0.18
Prostate	164.2	120.1	69	-1.17
C. Hospitalization Rate per 100,000				
All Admissions	9,642.3	9008.8	10388	-3.26
ACS Admissions	1,064.5	952.2	1098	-1.66
Marker Condition Admissions	468.8	451.0	520	-0.40
ACS/Marker Condition Admissions	2.3	2.1		
Injury Admissions	758.8	695.5	802	-1.11
VIII. Senior (Age 65-74)				
A. Mortality Rate per 100,000				
All Causes	2580.3	2380.5	829	-1.05
Internal Causes	2523.4	2343.1	816	-0.96
Heart Disease	749.2	715.0	249	-0.33
Cancer	958.2	841.3	293	-1.00
Breast (Female)	127.4		14	
Cervix			1	
Colon	77.0	63.2	22	-0.42
Lung	311.2	249.8	87	-0.92
Prostate	102.8		16	
Cerebrovascular Disease	124.3	109.1	38	-0.36
Chronic Obstructive Pulmonary Disease	171.8	175.2	61	0.07
Diabetes-related Mortality	296.4	301.5	105	0.08
Injury Causes	53.3		13	
Total Unintentional	39.6		9	
Falls	11.8		3	
Motor Vehicle Accident	15.1		1	
Total Intentional	13.5		4	
Suicide	12.6		4	
Firearm	9.6		2	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	443.1	380.0	73	-0.59
Cervix	11.5		2	
Colon	185.9	183.8	64	-0.04
Lung	356.6	318.7	111	-0.53
Prostate	919.6	877.4	137	-0.25

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Hospitalization Rate per 100,000				
All Admissions	23,993.5	20376.2	7096	-7.07
ACS Admissions	3,877.2	3078.2	1072	-3.45
Marker Condition Admissions	1,323.3	1392.7	485	0.51
ACS/Marker Condition Admissions	2.9	2.2		
Injury Admissions	1,682.1	1441.5	502	-1.56
IX. Elderly (Age 75 +)				
A. Mortality Rate per 100,000				
All Causes	8574.0	8441.6	2749	-0.38
Internal Causes	8410.7	8278.8	2696	-0.38
Heart Disease	3107.9	3288.8	1071	0.84
Cancer	1563.9	1440.2	469	-0.80
Breast (Female)	179.3	150.9	33	-0.45
Cervix			2	
Colon	169.8	165.8	54	-0.08
Lung	354.9	347.0	113	-0.11
Prostate	423.0	449.2	48	0.19
Cerebrovascular Disease	814.5	866.0	282	0.46
Chronic Obstructive Pulmonary Disease	489.0	466.8	152	-0.26
Diabetes-related Mortality	764.8	703.2	229	-0.57
Injury Causes	155.1	162.8	53	0.16
Total Unintentional	136.1	144.3	47	0.18
Falls	59.5		16	
Motor Vehicle Accident	26.5		10	
Total Intentional	18.6		6	
Suicide	16.4		6	
Firearm	11.4		4	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	421.0	379.4	83	-0.42
Cervix	13.5		2	
Colon	331.7	356.2	116	0.34
Lung	313.7	285.6	93	-0.41
Prostate	991.7	1123.1	120	0.61
C. Hospitalization Rate per 100,000				
All Admissions	37,030.1	31371.1	10216	-9.46
ACS Admissions	7,967.8	6543.8	2131	-4.24
Marker Condition Admissions	3,224.7	3353.3	1092	0.59
ACS/Marker Condition Admissions	2.5	2.0		
Injury Admissions	3,731.4	3519.1	1146	-0.90

Conway HSA

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
I. Socioeconomic Risk Indicators				
A. % Receiving Medicaid / Food Stamps (1997, 1998)				
Children (Age <19)	9.1%	15.9%	719	15.67
Adults (Age 19+)	2.1%	2.9%	359	6.44
B. Unemployment (1995)				
	4.0%	3.7%	357	-1.51
C. % Deaths <12 Yrs. Education				
People (Age 25-44)	15.4%	6.7%	3	-1.62
People (Age 45-64)	18.9%	23.0%	28	1.13
People (Age 65+)	28.8%	28.2%	185	-0.38
D. % Births, Mother's Education <12 Yrs.				
Mothers (Age 18-24)	24.0%	29.9%	80	2.25
Mothers (Age 25+)	4.1%	3.4%	22	-0.96
II. Infant Health (Age <1)				
Health Status, Behaviors, and Barriers				
Infant Mortality per 1,000 live births	5.3		6	
Low Birthweight Mortality	47.6		3	
Normal Birthweight Mortality	2.0		1	
Low Birthweight Births	5.2%	4.8%	45	-0.59
Maternal Smoking	17.6%	19.5%	183	1.50
Late/No Prenatal Care Initiation	1.7%	1.7%	16	0.09
Mother's Education < 12 years	10.9%	12.8%	121	1.85
Mother's Age < 20	7.3%	8.2%	78	1.10
Mother Unmarried	22.3%	29.2%	276	5.05
Medicaid Payment	20.7%	37.2%	332	12.16
III. Children (Age 1-14)				
A. Mortality Rate per 100,000				
All Causes	18.4		2	
Internal Causes	11.4		1	
Injury Causes	6.5		1	
Motor Vehicle Accident	2.3		1	
B. Hospitalization Rate per 100,000				
All Admissions	1,669.9	1,399.3	229	-1.21
ACS Admissions	447.0	317.8	52	-1.11
Marker Condition Admissions	114.9	134.4	22	0.33
ACS/Marker Condition Admissions	3.9	2.4		
Injury Admissions	241.6	201.6	33	-0.47
IV. Adolescents (Age 15-17)				
A. Mortality Rate per 100,000				
All Causes	43.1		2	
Internal Causes	10.4		0	
Injury Causes	32.2		2	
Total Unintentional	19.2		2	
Motor Vehicle Accident	17.0		2	
Total Intentional	12.6		0	
Suicide	9.6		0	
Firearm	9.1		0	
B. Hospitalization Rate per 100,000				
All Admissions	3385.0	3126.8	106	-0.37
ACS Admissions	323.4		8	
Marker Condition Admissions	185.0		9	
ACS/Marker Condition Admissions	1.7	0.9		
Injury Admissions	640.8	619.5	21	-0.07
Obstetric Admissions	1424.2	1284.4	21	-0.21

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Birth-related Rates				
Birth Rate per 1,000 Females	14.4	12.8	21	-0.24
Low Birthweight Births	8.7%	5.3%	1	-0.54
Maternal Smoking	35.0%	50.0%	10	1.41
Late/No Prenatal Care Initiation	6.1%	9.5%	2	0.66
Mother's Education < 12 years	92.0%	90.5%	19	-0.26
Mother Unmarried	93.8%	100.0%	21	1.18
Medicaid Payment	53.3%	83.3%	15	2.55
V. Young Adult (Age 18-24)				
A. Mortality Rate per 100,000				
All Causes	53.8		3	
Internal Causes	10.7		0	
Injury Causes	42.5		3	
Total Unintentional	24.9		2	
Motor Vehicle Accident	21.0		2	
Total Intentional	16.1		1	
Suicide	14.4		1	
Firearm	10.3		1	
B. Hospitalization Rate per 100,000				
All Admissions	5,740.2	8494.8	570	4.34
ACS Admissions	324.4	313.0	21	-0.07
Marker Condition Admissions	120.4		10	
ACS/Marker Condition Admissions	2.7	2.1		
Injury Admissions	483.2	775.0	52	1.54
Obstetric Admissions	6,129.9	8262.2	271	2.28
C. Birth-related Rates				
Birth Rate per 1,000 Females	62.5	81.7	268	2.03
Low Birthweight Births	5.7%	4.5%	12	-0.82
Maternal Smoking	30.0%	29.3%	78	-0.26
Late/No Prenatal Care Initiation	3.0%	3.0%	8	-0.04
Mother's Education < 12 years	24.0%	29.9%	80	2.25
Mother Unmarried	51.3%	57.7%	154	2.08
Medicaid Payment	46.7%	66.3%	169	6.25
VI. Adults (Age 25-44)				
A. Mortality Rate per 100,000				
All Causes	113.6	186.5	45	1.50
Internal Causes	69.7	116.0	28	1.22
Heart Disease	14.1		6	
Cancer	24.8		10	
Breast (Female)	7.9		2	
Cervix			0	
Colon	1.1		1	
Lung	3.4		1	
Prostate			0	
Diabetes-related Mortality	4.3		4	
Injury Causes	41.7		15	
Total Unintentional	20.4		5	
Motor Vehicle Accident	11.0		2	
Total Intentional	17.7		7	
Suicide	15.2		6	
Firearm	9.5		5	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	56.3		9	
Cervix	12.3		4	
Colon	3.6		0	
Lung	5.3		0	
Prostate			0	
C. Hospitalization Rate per 100,000				
All Admissions	7,719.6	9051.0	2184	3.47
ACS Admissions	409.6	410.3	99	0.01
Marker Condition Admissions	137.1	111.9	27	-0.47
ACS/Marker Condition Admissions	3.0	3.7		
Injury Admissions	577.9	758.4	183	1.65
Obstetric Admissions	5,672.3	5138.9	638	-1.15

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
D. Birth-related Rates				
Birth Rate per 1,000 Females	58.8	52.9	657	-1.24
Low Birthweight Births	4.9%	4.9%	32	-0.06
Maternal Smoking	13.0%	14.5%	95	1.21
Late/No Prenatal Care Initiation	1.1%	0.9%	6	-0.37
Mother's Education < 12 years	4.1%	3.4%	22	-0.95
Mother Unmarried	10.5%	15.1%	99	3.84
Medicaid Payment	10.9%	3.9%	23.8	-5.64
VII. Middle Age (Age 45-64)				
A. Mortality Rate per 100,000				
All Causes	589.5	644.5	124	0.45
Internal Causes	547.9	608.1	117	0.51
Heart Disease	148.6	202.7	39	0.87
Cancer	245.8	244.3	47	-0.02
Breast (Female)	47.9		4	
Cervix	5.8		1	
Colon	16.5		6	
Lung	78.0		18	
Prostate	7.5		1	
Chronic Obstructive Pulmonary Disease	22.8		3	
Diabetes-related Mortality	52.8		6	
Injury Causes	39.0		7	
Total Unintentional	19.9		2	
Motor Vehicle Accident	8.6		1	
Total Intentional	17.8		4	
Suicide	16.0		4	
Firearm	10.8		2	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	259.6	206.8	20	-0.46
Cervix	16.5		3	
Colon	39.9		8	
Lung	99.2		19	
Prostate	164.2		9	
C. Hospitalization Rate per 100,000				
All Admissions	9,642.3	10239.1	1970	1.25
ACS Admissions	1,064.5	982.3	189	-0.50
Marker Condition Admissions	468.8	436.6	84	-0.29
ACS/Marker Condition Admissions	2.3	2.3		
Injury Admissions	758.8	852.4	164	0.67
VIII. Senior (Age 65-74)				
A. Mortality Rate per 100,000				
All Causes	2580.3	2539.5	177	-0.10
Internal Causes	2523.4	2525.1	176	0.00
Heart Disease	749.2	746.1	52	-0.01
Cancer	958.2	918.2	64	-0.15
Breast (Female)	127.4		2	
Cervix			0	
Colon	77.0		5	
Lung	311.2	330.0	23	0.13
Prostate	102.8		5	
Cerebrovascular Disease	124.3		8	
Chronic Obstructive Pulmonary Disease	171.8		12	
Diabetes-related Mortality	296.4	301.3	21	0.03
Injury Causes	53.3		1	
Total Unintentional	39.6		0	
Falls	11.8		0	
Motor Vehicle Accident	15.1		0	
Total Intentional	13.5		1	
Suicide	12.6		1	
Firearm	9.6		1	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	443.1	529.8	20	0.36
Cervix	11.5		0	
Colon	185.9		16	
Lung	356.6	416.1	29	0.37
Prostate	919.6	937.5	30	0.05

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Hospitalization Rate per 100,000				
All Admissions	23,993.5	23371.6	1629	-0.54
ACS Admissions	3,877.2	2582.5	180	-2.50
Marker Condition Admissions	1,323.3	1147.8	80	-0.57
ACS/Marker Condition Admissions	2.9	2.3		
Injury Admissions	1,682.1	1449.1	101	-0.68
IX. Elderly (Age 75 +)				
A. Mortality Rate per 100,000				
All Causes	8574.0	8079.8	486	-0.61
Internal Causes	8410.7	7930.2	477	-0.60
Heart Disease	3107.9	2809.6	169	-0.60
Cancer	1563.9	1280.1	77	-0.79
Breast (Female)	179.3		10	
Cervix			1	
Colon	169.8		12	
Lung	354.9		13	
Prostate	423.0		7	
Cerebrovascular Disease	814.5	1180.4	71	1.41
Chronic Obstructive Pulmonary Disease	489.0	382.4	23	-0.53
Diabetes-related Mortality	764.8	814.6	49	0.20
Injury Causes	155.1		7	
Total Unintentional	136.1		7	
Falls	59.5		4	
Motor Vehicle Accident	26.5		1	
Total Intentional	18.6		0	
Suicide	16.4		0	
Firearm	11.4		0	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	421.0	550.2	20	0.54
Cervix	13.5		0	
Colon	331.7	332.5	20	0.00
Lung	313.7		11	
Prostate	991.7		16	
C. Hospitalization Rate per 100,000				
All Admissions	37,030.1	32319.2	1944	-3.38
ACS Admissions	7,967.8	5719.0	344	-2.88
Marker Condition Admissions	3,224.7	2709.9	163	-1.01
ACS/Marker Condition Admissions	2.5	2.1		
Injury Admissions	3,731.4	3325.0	200	-0.74

Derry HSA

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
I. Socioeconomic Risk Indicators				
A. % Receiving Medicaid / Food Stamps (1997, 1998)				
Children (Age <19)	9.1%	5.2%	1,118	-20.09
Adults (Age 19+)	2.1%	1.0%	507	-17.51
B. Unemployment (1995)				
	4.0%	4.8%	2,034	8.43
C. % Deaths <12 Yrs. Education				
People (Age 25-44)	15.4%	11.3%	12	-1.16
People (Age 45-64)	18.9%	13.8%	46	-2.41
People (Age 65+)	28.8%	32.4%	344	2.56
D. % Births, Mother's Education <12 Yrs.				
Mothers (Age 18-24)	24.0%	15.3%	136	-6.08
Mothers (Age 25+)	4.1%	2.0%	95	-7.36
II. Infant Health (Age <1)				
Health Status, Behaviors, and Barriers				
Infant Mortality per 1,000 live births		3.5	20	-1.91
Low Birthweight Mortality	47.6		9	
Normal Birthweight Mortality	2.0		9	
Low Birthweight Births	5.2%	5.1%	296	-0.30
Maternal Smoking	17.6%	13.5%	778	-8.23
Late/No Prenatal Care Initiation	1.7%	1.1%	61	-3.33
Mother's Education < 12 years	10.9%	5.2%	300	-13.87
Mother's Age < 20	7.3%	4.5%	260	-8.22
Mother Unmarried	22.3%	13.1%	755	-16.94
Medicaid Payment	20.7%	9.8%	534	-19.83
III. Children (Age 1-14)				
A. Mortality Rate per 100,000				
All Causes	18.4		10	
Internal Causes	11.4		7	
Injury Causes	6.5		3	
Motor Vehicle Accident	2.3		0	
B. Hospitalization Rate per 100,000				
All Admissions	1,669.9	1,818.5	1405	1.44
ACS Admissions	447.0	543.6	420	1.80
Marker Condition Admissions	114.9	120.4	93	0.20
ACS/Marker Condition Admissions	3.9	4.5		
Injury Admissions	241.6	214.9	166	-0.68
IV. Adolescents (Age 15-17)				
A. Mortality Rate per 100,000				
All Causes	43.1		9	
Internal Causes	10.4		0	
Injury Causes	32.2		9	
Total Unintentional	19.2		8	
Motor Vehicle Accident	17.0		8	
Total Intentional	12.6		1	
Suicide	9.6		1	
Firearm	9.1		1	
B. Hospitalization Rate per 100,000				
All Admissions	3385.0	3208.0	482	-0.54
ACS Admissions	323.4	319.5	48	-0.04
Marker Condition Admissions	185.0	173.0	26	-0.15
ACS/Marker Condition Admissions	1.7	1.8		
Injury Admissions	640.8	718.8	108	0.54
Obstetric Admissions	1424.2	1022.9	76	-1.31

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
C. Birth-related Rates				
Birth Rate per 1,000 Females	14.4	10.4	77	-1.31
Low Birthweight Births	8.7%	6.5%	5	-0.70
Maternal Smoking	35.0%	40.3%	31	0.97
Late/No Prenatal Care Initiation	6.1%	9.5%	7	1.21
Mother's Education < 12 years	92.0%	88.3%	68	-1.20
Mother Unmarried	93.8%	94.8%	73	0.36
Medicaid Payment	53.3%	44.0%	33	-1.62
V. Young Adult (Age 18-24)				
A. Mortality Rate per 100,000				
All Causes	53.8	63.3	21	0.33
Internal Causes	10.7		6	
Injury Causes	42.5		15	
Total Unintentional	24.9		10	
Motor Vehicle Accident	21.0		8	
Total Intentional	16.1		5	
Suicide	14.4		5	
Firearm	10.3		1	
B. Hospitalization Rate per 100,000				
All Admissions	5,740.2	5287.1	1754	-1.59
ACS Admissions	324.4	286.4	95	-0.54
Marker Condition Admissions	120.4	114.5	38	-0.14
ACS/Marker Condition Admissions	2.7	2.5		
Injury Admissions	483.2	518.5	172	0.41
Obstetric Admissions	6,129.9	5596.9	879	-1.25
C. Birth-related Rates				
Birth Rate per 1,000 Females	62.5	57.1	896	-1.27
Low Birthweight Births	5.7%	5.1%	46	-0.74
Maternal Smoking	30.0%	27.5%	246	-1.65
Late/No Prenatal Care Initiation	3.0%	2.4%	21	-1.08
Mother's Education < 12 years	24.0%	15.3%	136	-6.08
Mother Unmarried	51.3%	47.4%	425	-2.33
Medicaid Payment	46.7%	32.1%	274	-8.58
VI. Adults (Age 25-44)				
A. Mortality Rate per 100,000				
All Causes	113.6	86.1	107	-1.28
Internal Causes	69.7	45.9	57	-1.42
Heart Disease	14.1		12	
Cancer	24.8	22.5	28	-0.23
Breast (Female)	7.9		4	
Cervix			0	
Colon	1.1		1	
Lung	3.4		4	
Prostate			0	
Diabetes-related Mortality	4.3		2	
Injury Causes	41.7	38.6	48	-0.23
Total Unintentional	20.4	22.5	28	0.24
Motor Vehicle Accident	11.0	16.9	21	0.88
Total Intentional	17.7		16	
Suicide	15.2		16	
Firearm	9.5		10	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	56.3	64.0	40	0.36
Cervix	12.3		8	
Colon	3.6		4	
Lung	5.3		1	
Prostate			0	
C. Hospitalization Rate per 100,000				
All Admissions	7,719.6	8208.2	10195	2.89
ACS Admissions	409.6	339.0	421	-1.74
Marker Condition Admissions	137.1	121.6	151	-0.66
ACS/Marker Condition Admissions	3.0	2.8		
Injury Admissions	577.9	520.9	647	-1.19
Obstetric Admissions	5,672.3	7390.4	4619	8.30

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
D. Birth-related Rates				
Birth Rate per 1,000 Females	58.8	76.9	4804	8.59
Low Birthweight Births	4.9%	5.1%	244	0.49
Maternal Smoking	13.0%	10.4%	501	-5.18
Late/No Prenatal Care Initiation	1.1%	0.7%	33	-2.35
Mother's Education < 12 years	4.1%	2.0%	95	-7.36
Mother Unmarried	10.5%	5.3%	256	-11.68
Medicaid Payment	10.9%	5.0%	226	-12.74
VII. Middle Age (Age 45-64)				
A. Mortality Rate per 100,000				
All Causes	589.5	421.3	334	-2.77
Internal Causes	547.9	393.6	312	-2.63
Heart Disease	148.6	116.1	92	-1.06
Cancer	245.8	172.8	137	-1.86
Breast (Female)	47.9		11	
Cervix	5.8		3	
Colon	16.5		14	
Lung	78.0	49.2	39	-1.30
Prostate	7.5		1	
Chronic Obstructive Pulmonary Disease	22.8		9	
Diabetes-related Mortality	52.8	42.9	34	-0.54
Injury Causes	39.0	25.2	20	-0.88
Total Unintentional	19.9		8	
Motor Vehicle Accident	8.6		4	
Total Intentional	17.8		10	
Suicide	16.0		10	
Firearm	10.8		7	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	259.6	208.9	82	-0.88
Cervix	16.5		6	
Colon	39.9	35.3	28	-0.29
Lung	99.2	74.4	59	-0.99
Prostate	164.2	167.4	67	0.07
C. Hospitalization Rate per 100,000				
All Admissions	9,642.3	7967.7	6316	-7.14
ACS Admissions	1,064.5	763.2	605	-3.70
Marker Condition Admissions	468.8	365.8	290	-1.90
ACS/Marker Condition Admissions	2.3	2.1		
Injury Admissions	758.8	627.0	497	-1.91
VIII. Senior (Age 65-74)				
A. Mortality Rate per 100,000				
All Causes	2580.3	1653.8	310	-3.58
Internal Causes	2523.4	1600.4	300	-3.60
Heart Disease	749.2	597.5	112	-1.08
Cancer	958.2	581.5	109	-2.37
Breast (Female)	127.4		8	
Cervix			0	
Colon	77.0		7	
Lung	311.2	224.1	42	-0.96
Prostate	102.8		2	
Cerebrovascular Disease	124.3		10	
Chronic Obstructive Pulmonary Disease	171.8		18	
Diabetes-related Mortality	296.4	165.4	31	-1.48
Injury Causes	53.3		8	
Total Unintentional	39.6		7	
Falls	11.8		2	
Motor Vehicle Accident	15.1		4	
Total Intentional	13.5		1	
Suicide	12.6		1	
Firearm	9.6		1	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	443.1	306.0	31	-0.93
Cervix	11.5		0	
Colon	185.9	112.0	21	-1.05
Lung	356.6	304.1	57	-0.54
Prostate	919.6	557.2	48	-1.58

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Hospitalization Rate per 100,000				
All Admissions	23,993.5	16329.7	3061	-10.99
ACS Admissions	3,877.2	2635.4	494	-3.94
Marker Condition Admissions	1,323.3	917.6	172	-2.17
ACS/Marker Condition Admissions	2.9	2.9		
Injury Admissions	1,682.1	1173.6	220	-2.42
IX. Elderly (Age 75 +)				
A. Mortality Rate per 100,000				
All Causes	8574.0	5255.1	757	-6.36
Internal Causes	8410.7	5171.8	745	-6.26
Heart Disease	3107.9	2020.1	291	-3.36
Cancer	1563.9	1020.5	147	-2.35
Breast (Female)	179.3		14	
Cervix			0	
Colon	169.8		15	
Lung	354.9	201.3	29	-1.39
Prostate	423.0		13	
Cerebrovascular Disease	814.5	381.8	55	-2.58
Chronic Obstructive Pulmonary Disease	489.0	326.3	47	-1.25
Diabetes-related Mortality	764.8	472.1	68	-1.80
Injury Causes	155.1		11	
Total Unintentional	136.1		10	
Falls	59.5		4	
Motor Vehicle Accident	26.5		3	
Total Intentional	18.6		1	
Suicide	16.4		1	
Firearm	11.4		1	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	421.0	226.7	21	-1.29
Cervix	13.5		0	
Colon	331.7	187.4	27	-1.35
Lung	313.7	256.9	37	-0.55
Prostate	991.7	778.2	40	-0.69
C. Hospitalization Rate per 100,000				
All Admissions	37,030.1	23047.6	3320	-15.54
ACS Admissions	7,967.8	4463.7	643	-6.95
Marker Condition Admissions	3,224.7	2124.3	306	-3.34
ACS/Marker Condition Admissions	2.5	2.1		
Injury Admissions	3,731.4	2013.2	290	-4.87

Dover HSA

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
I. Socioeconomic Risk Indicators				
A. % Receiving Medicaid / Food Stamps (1997, 1998)				
Children (Age <19)	9.1%	8.2%	1,466	-4.39
Adults (Age 19+)	2.1%	2.2%	919	1.41
B. Unemployment (1995)				
	4.0%	3.4%	1,089	-5.49
C. % Deaths <12 Yrs. Education				
People (Age 25-44)	15.4%	10.8%	9	-1.14
People (Age 45-64)	18.9%	22.9%	78	1.85
People (Age 65+)	28.8%	31.0%	498	1.90
D. % Births, Mother's Education <12 Yrs.				
Mothers (Age 18-24)	24.0%	20.4%	172	-2.47
Mothers (Age 25+)	4.1%	3.1%	76	-2.44
II. Infant Health (Age <1)				
Health Status, Behaviors, and Barriers				
Infant Mortality per 1,000 live births	5.3	7.1	24	1.44
Low Birthweight Mortality	47.6		9	
Normal Birthweight Mortality	2.0		5	
Low Birthweight Births	5.2%	4.6%	155	-1.67
Maternal Smoking	17.6%	17.4%	590	-0.26
Late/No Prenatal Care Initiation	1.7%	1.9%	61	0.89
Mother's Education < 12 years	10.9%	9.3%	310	-3.10
Mother's Age < 20	7.3%	7.2%	245	-0.22
Mother Unmarried	22.3%	23.8%	808	2.02
Medicaid Payment	20.7%	25.7%	820	6.92
III. Children (Age 1-14)				
A. Mortality Rate per 100,000				
All Causes	18.4		10	
Internal Causes	11.4		7	
Injury Causes	6.5		3	
Motor Vehicle Accident	2.3		0	
B. Hospitalization Rate per 100,000				
All Admissions	1,669.9	1,333.5	717	-2.72
ACS Admissions	447.0	373.8	201	-1.14
Marker Condition Admissions	114.9	94.8	51	-0.61
ACS/Marker Condition Admissions	3.9	3.9		
Injury Admissions	241.6	178.5	96	-1.33
IV. Adolescents (Age 15-17)				
A. Mortality Rate per 100,000				
All Causes	43.1		5	
Internal Causes	10.4		1	
Injury Causes	32.2		4	
Total Unintentional	19.2		2	
Motor Vehicle Accident	17.0		1	
Total Intentional	12.6		2	
Suicide	9.6		2	
Firearm	9.1		2	
B. Hospitalization Rate per 100,000				
All Admissions	3385.0	2927.5	303	-1.15
ACS Admissions	323.4	415.5	43	0.74
Marker Condition Admissions	185.0		12	
ACS/Marker Condition Admissions	1.7	3.6		
Injury Admissions	640.8	560.4	58	-0.46
Obstetric Admissions	1424.2	1289.1	66	-0.36

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Birth-related Rates				
Birth Rate per 1,000 Females	14.4	12.9	66	-0.41
Low Birthweight Births	8.7%	12.1%	8	0.97
Maternal Smoking	35.0%	36.4%	24	0.23
Late/No Prenatal Care Initiation	6.1%	5.0%	3	-0.35
Mother's Education < 12 years	92.0%	92.4%	61	0.12
Mother Unmarried	93.8%	95.5%	63	0.56
Medicaid Payment	53.3%	61.9%	39	1.36
V. Young Adult (Age 18-24)				
A. Mortality Rate per 100,000				
All Causes	53.8		14	
Internal Causes	10.7		5	
Injury Causes	42.5		9	
Total Unintentional	24.9		7	
Motor Vehicle Accident	21.0		6	
Total Intentional	16.1		1	
Suicide	14.4		1	
Firearm	10.3		1	
B. Hospitalization Rate per 100,000				
All Admissions	5,740.2	2758.6	1523	-13.47
ACS Admissions	324.4	141.3	78	-3.38
Marker Condition Admissions	120.4	61.6	34	-1.78
ACS/Marker Condition Admissions	2.7	2.3		
Injury Admissions	483.2	244.5	135	-3.62
Obstetric Admissions	6,129.9	3179.9	898	-9.24
C. Birth-related Rates				
Birth Rate per 1,000 Females	62.5	30.7	866	-9.89
Low Birthweight Births	5.7%	5.0%	43	-0.93
Maternal Smoking	30.0%	27.4%	235	-1.72
Late/No Prenatal Care Initiation	3.0%	3.8%	32	1.38
Mother's Education < 12 years	24.0%	20.4%	172	-2.47
Mother Unmarried	51.3%	52.2%	452	0.51
Medicaid Payment	46.7%	53.9%	445	4.15
VI. Adults (Age 25-44)				
A. Mortality Rate per 100,000				
All Causes	113.6	92.6	83	-0.83
Internal Causes	69.7	55.8	50	-0.71
Heart Disease	14.1		6	
Cancer	24.8	26.8	24	0.17
Breast (Female)	7.9		5	
Cervix			1	
Colon	1.1		1	
Lung	3.4		4	
Prostate			0	
Diabetes-related Mortality	4.3		2	
Injury Causes	41.7	31.2	28	-0.68
Total Unintentional	20.4		13	
Motor Vehicle Accident	11.0		10	
Total Intentional	17.7		11	
Suicide	15.2		9	
Firearm	9.5		7	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	56.3		18	
Cervix	12.3		4	
Colon	3.6		4	
Lung	5.3		4	
Prostate			0	
C. Hospitalization Rate per 100,000				
All Admissions	7,719.6	6440.6	5774	-6.42
ACS Admissions	409.6	322.4	289	-1.83
Marker Condition Admissions	137.1	123.8	111	-0.48
ACS/Marker Condition Admissions	3.0	2.6		
Injury Admissions	577.9	475.2	426	-1.82
Obstetric Admissions	5,672.3	5688.8	2583	0.07

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
D. Birth-related Rates				
Birth Rate per 1,000 Females	58.8	54.2	2462	-1.85
Low Birthweight Births	4.9%	4.2%	104	-1.60
Maternal Smoking	13.0%	13.5%	331	0.78
Late/No Prenatal Care Initiation	1.1%	1.1%	26	0.11
Mother's Education < 12 years	4.1%	3.1%	76	-2.43
Mother Unmarried	10.5%	11.9%	292	2.21
Medicaid Payment	10.9%	14.6%	335	5.56
VII. Middle Age (Age 45-64)				
A. Mortality Rate per 100,000				
All Causes	589.5	639.0	343	0.67
Internal Causes	547.9	598.0	321	0.70
Heart Disease	148.6	162.1	87	0.36
Cancer	245.8	251.5	135	0.12
Breast (Female)	47.9		10	
Cervix	5.8		2	
Colon	16.5		6	
Lung	78.0	96.9	52	0.70
Prostate	7.5		2	
Chronic Obstructive Pulmonary Disease	22.8		16	
Diabetes-related Mortality	52.8	70.8	38	0.81
Injury Causes	39.0		19	
Total Unintentional	19.9		9	
Motor Vehicle Accident	8.6		6	
Total Intentional	17.8		8	
Suicide	16.0		8	
Firearm	10.8		1	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	259.6	235.1	64	-0.35
Cervix	16.5		3	
Colon	39.9		16	
Lung	99.2	111.8	60	0.41
Prostate	164.2	196.6	52	0.58
C. Hospitalization Rate per 100,000				
All Admissions	9,642.3	8583.1	4607	-3.72
ACS Admissions	1,064.5	940.8	505	-1.25
Marker Condition Admissions	468.8	437.8	235	-0.47
ACS/Marker Condition Admissions	2.3	2.1		
Injury Admissions	758.8	622.3	334	-1.63
VIII. Senior (Age 65-74)				
A. Mortality Rate per 100,000				
All Causes	2580.3	2495.0	434	-0.32
Internal Causes	2523.4	2472.0	430	-0.19
Heart Disease	749.2	684.1	119	-0.45
Cancer	958.2	1011.8	176	0.32
Breast (Female)	127.4		11	
Cervix			0	
Colon	77.0		15	
Lung	311.2	390.9	68	0.84
Prostate	102.8		9	
Cerebrovascular Disease	124.3	161.0	28	0.61
Chronic Obstructive Pulmonary Disease	171.8	184.0	32	0.17
Diabetes-related Mortality	296.4	298.9	52	0.03
Injury Causes	53.3		4	
Total Unintentional	39.6		4	
Falls	11.8		4	
Motor Vehicle Accident	15.1		0	
Total Intentional	13.5		0	
Suicide	12.6		0	
Firearm	9.6		0	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	443.1	435.0	42	-0.05
Cervix	11.5		0	
Colon	185.9	184.0	32	-0.03
Lung	356.6	402.4	70	0.45
Prostate	919.6	1020.7	79	0.42

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Hospitalization Rate per 100,000				
All Admissions	23,993.5	20615.1	3586	-4.67
ACS Admissions	3,877.2	3317.0	577	-1.71
Marker Condition Admissions	1,323.3	1264.7	220	-0.30
ACS/Marker Condition Admissions	2.9	2.6		
Injury Admissions	1,682.1	1592.4	277	-0.41
IX. Elderly (Age 75 +)				
A. Mortality Rate per 100,000				
All Causes	8574.0	8663.8	1206	0.17
Internal Causes	8410.7	8462.6	1178	0.10
Heart Disease	3107.9	3146.6	438	0.12
Cancer	1563.9	1530.2	213	-0.14
Breast (Female)	179.3		17	
Cervix			0	
Colon	169.8	150.9	21	-0.24
Lung	354.9	359.2	50	0.04
Prostate	423.0		15	
Cerebrovascular Disease	814.5	775.9	108	-0.23
Chronic Obstructive Pulmonary Disease	489.0	517.2	72	0.21
Diabetes-related Mortality	764.8	869.3	121	0.63
Injury Causes	155.1	194.0	27	0.52
Total Unintentional	136.1	179.6	25	0.62
Falls	59.5		14	
Motor Vehicle Accident	26.5		6	
Total Intentional	18.6		2	
Suicide	16.4		2	
Firearm	11.4		1	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	421.0	385.4	36	-0.24
Cervix	13.5		0	
Colon	331.7	373.6	52	0.38
Lung	313.7	438.2	61	1.17
Prostate	991.7	1092.9	50	0.31
C. Hospitalization Rate per 100,000				
All Admissions	37,030.1	34159.5	4755	-3.14
ACS Admissions	7,967.8	7097.7	988	-1.70
Marker Condition Admissions	3,224.7	3225.6	449	0.00
ACS/Marker Condition Admissions	2.5	2.2		
Injury Admissions	3,731.4	3951.1	550	0.61

Exeter HSA

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
I. Socioeconomic Risk Indicators				
A. % Receiving Medicaid / Food Stamps (1997, 1998)				
Children (Age <19)	9.1%	6.6%	1,553	-13.42
Adults (Age 19+)	2.1%	1.6%	1,001	-7.98
B. Unemployment (1995)				
	4.0%	4.1%	1,923	1.11
C. % Deaths <12 Yrs. Education				
People (Age 25-44)	15.4%	11.0%	16	-1.45
People (Age 45-64)	18.9%	18.1%	92	-0.48
People (Age 65+)	28.8%	26.7%	603	-2.19
D. % Births, Mother's Education <12 Yrs.				
Mothers (Age 18-24)	24.0%	21.7%	200	-1.63
Mothers (Age 25+)	4.1%	2.3%	109	-6.14
II. Infant Health (Age <1)				
Health Status, Behaviors, and Barriers				
Infant Mortality per 1,000 live births	5.3	5.2	30	-0.06
Low Birthweight Mortality	47.6		15	
Normal Birthweight Mortality	2.0		9	
Low Birthweight Births	5.2%	5.2%	298	-0.08
Maternal Smoking	17.6%	13.1%	754	-8.88
Late/No Prenatal Care Initiation	1.7%	1.4%	75	-1.61
Mother's Education < 12 years	10.9%	6.9%	393	-9.80
Mother's Age < 20	7.3%	5.2%	297	-6.24
Mother Unmarried	22.3%	15.5%	891	-12.44
Medicaid Payment	20.7%	14.6%	792	-11.07
III. Children (Age 1-14)				
A. Mortality Rate per 100,000				
All Causes	18.4		11	
Internal Causes	11.4		8	
Injury Causes	6.5		2	
Motor Vehicle Accident	2.3		0	
B. Hospitalization Rate per 100,000				
All Admissions	1,669.9	1,484.1	1256	-1.89
ACS Admissions	447.0	401.7	340	-0.88
Marker Condition Admissions	114.9	87.4	74	-1.05
ACS/Marker Condition Admissions	3.9	4.6		
Injury Admissions	241.6	222.1	188	-0.52
IV. Adolescents (Age 15-17)				
A. Mortality Rate per 100,000				
All Causes	43.1		6	
Internal Causes	10.4		1	
Injury Causes	32.2		4	
Total Unintentional	19.2		2	
Motor Vehicle Accident	17.0		2	
Total Intentional	12.6		2	
Suicide	9.6		2	
Firearm	9.1		1	
B. Hospitalization Rate per 100,000				
All Admissions	3385.0	2563.8	427	-2.6
ACS Admissions	323.4	264.2	44	-0.6
Marker Condition Admissions	185.0	144.1	24	-0.5
ACS/Marker Condition Admissions	1.7	1.8		
Injury Admissions	640.8	660.5	110	0.14
Obstetric Admissions	1424.2	1079.4	89	-1.18

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
C. Birth-related Rates				
Birth Rate per 1,000 Females	14.4	11.0	91	-1.15
Low Birthweight Births	8.7%	4.4%	4	-1.47
Maternal Smoking	35.0%	30.8%	28	-0.85
Late/No Prenatal Care Initiation	6.1%	9.8%	8	1.39
Mother's Education < 12 years	92.0%	87.6%	78	-1.53
Mother Unmarried	93.8%	100.0%	83	2.34
Medicaid Payment	53.3%	45.5%	40	-1.48
V. Young Adult (Age 18-24)				
A. Mortality Rate per 100,000				
All Causes	53.8		16	
Internal Causes	10.7		6	
Injury Causes	42.5		10	
Total Unintentional	24.9		8	
Motor Vehicle Accident	21.0		6	
Total Intentional	16.1		2	
Suicide	14.4		1	
Firearm	10.3		2	
B. Hospitalization Rate per 100,000				
All Admissions	5,740.2	4094.4	1552	-6.16
ACS Admissions	324.4	234.8	89	-1.37
Marker Condition Admissions	120.4	100.3	38	-0.51
ACS/Marker Condition Admissions	2.7	2.3		
Injury Admissions	483.2	406.3	154	-0.97
Obstetric Admissions	6,129.9	4776.5	860	-3.39
C. Birth-related Rates				
Birth Rate per 1,000 Females	62.5	51.5	927	-2.74
Low Birthweight Births	5.7%	5.8%	54	0.13
Maternal Smoking	30.0%	25.7%	238	-2.88
Late/No Prenatal Care Initiation	3.0%	3.0%	27	0.04
Mother's Education < 12 years	24.0%	21.7%	200	-1.63
Mother Unmarried	51.3%	48.2%	447	-1.89
Medicaid Payment	46.7%	47.3%	416	0.32
VI. Adults (Age 25-44)				
A. Mortality Rate per 100,000				
All Causes	113.6	102.5	147	-0.56
Internal Causes	69.7	59.3	85	-0.67
Heart Disease	14.1		19	
Cancer	24.8	20.9	30	-0.42
Breast (Female)	7.9		7	
Cervix			3	
Colon	1.1		2	
Lung	3.4		2	
Prostate			0	
Diabetes-related Mortality	4.3		6	
Injury Causes	41.7	43.2	62	0.13
Total Unintentional	20.4	22.3	32	0.23
Motor Vehicle Accident	11.0		18	
Total Intentional	17.7	18.1	26	0.05
Suicide	15.2	16.7	24	0.21
Firearm	9.5		11	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	56.3	54.0	39	-0.11
Cervix	12.3		9	
Colon	3.6		5	
Lung	5.3		7	
Prostate			2	
C. Hospitalization Rate per 100,000				
All Admissions	7,719.6	6495.9	9318	-7.77
ACS Admissions	409.6	312.3	448	-2.58
Marker Condition Admissions	137.1	108.1	155	-1.33
ACS/Marker Condition Admissions	3.0	2.9		
Injury Admissions	577.9	435.0	624	-3.19
Obstetric Admissions	5,672.3	5954.3	4299	1.46

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
D. Birth-related Rates				
Birth Rate per 1,000 Females	58.8	65.3	4718	3.35
Low Birthweight Births	4.9%	5.0%	237	0.31
Maternal Smoking	13.0%	10.4%	488	-5.30
Late/No Prenatal Care Initiation	1.1%	0.9%	40	-1.09
Mother's Education < 12 years	4.1%	2.3%	109	-6.13
Mother Unmarried	10.5%	7.5%	354	-6.70
Medicaid Payment	10.9%	7.5%	335	-7.24
VII. Middle Age (Age 45-64)				
A. Mortality Rate per 100,000				
All Causes	589.5	577.0	514	-0.22
Internal Causes	547.9	531.0	473	-0.31
Heart Disease	148.6	145.9	130	-0.09
Cancer	245.8	260.4	232	0.39
Breast (Female)	47.9	67.9	30	0.86
Cervix	5.8		0	
Colon	16.5		12	
Lung	78.0	90.9	81	0.62
Prostate	7.5		1	
Chronic Obstructive Pulmonary Disease	22.8		11	
Diabetes-related Mortality	52.8	44.9	40	-0.46
Injury Causes	39.0	44.9	40	0.40
Total Unintentional	19.9	26.9	24	0.66
Motor Vehicle Accident	8.6		13	
Total Intentional	17.8		15	
Suicide	16.0		12	
Firearm	10.8		7	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	259.6	303.5	134	0.81
Cervix	16.5		6	
Colon	39.9	41.5	37	0.11
Lung	99.2	112.3	100	0.55
Prostate	164.2	187.0	84	0.53
C. Hospitalization Rate per 100,000				
All Admissions	9,642.3	8146.2	7257	-6.8
ACS Admissions	1,064.5	904.8	806	-2.08
Marker Condition Admissions	468.8	391.8	349	-1.51
ACS/Marker Condition Admissions	2.3	2.31		
Injury Admissions	758.8	662.3	590	-1.48
VIII. Senior (Age 65-74)				
A. Mortality Rate per 100,000				
All Causes	2580.3	2394.2	608	-0.84
Internal Causes	2523.4	2327.2	591	-0.89
Heart Disease	749.2	700.9	178	-0.40
Cancer	958.2	862.4	219	-0.70
Breast (Female)	127.4	160.1	22	0.48
Cervix			2	
Colon	77.0		15	
Lung	311.2	240.2	61	-0.91
Prostate	102.8	188.8	22	1.30
Cerebrovascular Disease	124.3	114.2	29	-0.20
Chronic Obstructive Pulmonary Disease	171.8	110.3	28	-1.06
Diabetes-related Mortality	296.4	307.1	78	0.14
Injury Causes	53.3		16	
Total Unintentional	39.6		11	
Falls	11.8		0	
Motor Vehicle Accident	15.1		8	
Total Intentional	13.5		5	
Suicide	12.6		5	
Firearm	9.6		5	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	443.1	371.2	51	-0.57
Cervix	11.5		2	
Colon	185.9	189.0	48	0.05
Lung	356.6	330.8	84	-0.31
Prostate	919.6	746.8	87	-0.87

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Hospitalization Rate per 100,000				
All Admissions	23,993.5	21114.4	5362	-4.80
ACS Admissions	3,877.2	3453.4	877	-1.56
Marker Condition Admissions	1,323.3	1157.7	294	-1.03
ACS/Marker Condition Admissions	2.9	3.0		
Injury Admissions	1,682.1	1508.2	383	-0.96
IX. Elderly (Age 75 +)				
A. Mortality Rate per 100,000				
All Causes	8574.0	8183.4	1660	-0.89
Internal Causes	8410.7	8045.4	1632	-0.84
Heart Disease	3107.9	2583.2	524	-1.93
Cancer	1563.9	1656.4	336	0.47
Breast (Female)	179.3	198.9	26	0.24
Cervix			1	
Colon	169.8	98.6	20	-1.10
Lung	354.9	384.5	78	0.32
Prostate	423.0	457.7	33	0.20
Cerebrovascular Disease	814.5	838.1	170	0.17
Chronic Obstructive Pulmonary Disease	489.0	522.6	106	0.31
Diabetes-related Mortality	764.8	749.3	152	-0.11
Injury Causes	155.1	138.0	28	-0.28
Total Unintentional	136.1	113.4	23	-0.39
Falls	59.5		12	
Motor Vehicle Accident	26.5		4	
Total Intentional	18.6		4	
Suicide	16.4		3	
Firearm	11.4		3	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	421.0	458.9	60	0.30
Cervix	13.5		4	
Colon	331.7	271.1	55	-0.67
Lung	313.7	359.9	73	0.53
Prostate	991.7	1054.1	76	0.24
C. Hospitalization Rate per 100,000				
All Admissions	37,030.1	30653.2	6218	-8.41
ACS Admissions	7,967.8	6246.0	1267	-4.05
Marker Condition Admissions	3,224.7	3056.4	620	-0.61
ACS/Marker Condition Admissions	2.5	2.0		
Injury Admissions	3,731.4	3357.2	681	-1.26

Franklin HSA

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
I. Socioeconomic Risk Indicators				
A. % Receiving Medicaid / Food Stamps (1997, 1998)				
Children (Age <19)	9.1%	15.8%	529	13.28
Adults (Age 19+)	2.1%	3.2%	275	7.34
B. Unemployment (1995)				
	4.0%	3.6%	227	-1.63
C. % Deaths <12 Yrs. Education				
People (Age 25-44)	15.4%	25.0%	6	1.31
People (Age 45-64)	18.9%	30.6%	26	2.74
People (Age 65+)	28.8%	34.9%	168	2.92
D. % Births, Mother's Education <12 Yrs.				
Mothers (Age 18-24)	24.0%	34.5%	107	4.34
Mothers (Age 25+)	4.1%	8.1%	31	3.91
II. Infant Health (Age <1)				
Health Status, Behaviors, and Barriers				
Infant Mortality per 1,000 live births	5.3		4	
Low Birthweight Mortality	47.6		1	
Normal Birthweight Mortality	2.0		1	
Low Birthweight Births	5.2%	7.0%	51	2.18
Maternal Smoking	17.6%	29.2%	212	8.18
Late/No Prenatal Care Initiation	1.7%	3.1%	22	2.99
Mother's Education < 12 years	10.9%	22.8%	166	10.28
Mother's Age < 20	7.3%	15.5%	113	8.52
Mother Unmarried	22.3%	42.9%	312	13.32
Medicaid Payment	20.7%	42.0%	303	14.11
III. Children (Age 1-14)				
A. Mortality Rate per 100,000				
All Causes	18.4		1	
Internal Causes	11.4		0	
Injury Causes	6.5		1	
Motor Vehicle Accident	2.3		0	
B. Hospitalization Rate per 100,000				
All Admissions	1,669.9	2,745.7	331	4.12
ACS Admissions	447.0	705.1	85	1.90
Marker Condition Admissions	114.9	472.8	57	5.19
ACS/Marker Condition Admissions	3.9	1.5		
Injury Admissions	241.6	414.8	50	1.73
IV. Adolescents (Age 15-17)				
A. Mortality Rate per 100,000				
All Causes	43.1		1	
Internal Causes	10.4		1	
Injury Causes	32.2		0	
Total Unintentional	19.2		0	
Motor Vehicle Accident	17.0		0	
Total Intentional	12.6		0	
Suicide	9.6		0	
Firearm	9.1		0	
B. Hospitalization Rate per 100,000				
All Admissions	3385.0	6000.0	150	3.23
ACS Admissions	323.4		14	
Marker Condition Admissions	185.0		19	
ACS/Marker Condition Admissions	1.7	0.7		
Injury Admissions	640.8	960.0	24	0.89
Obstetric Admissions	1424.2	2480.0	31	1.41

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Birth-related Rates				
Birth Rate per 1,000 Females	14.4	24.8	31	1.38
Low Birthweight Births	8.7%	22.6%	7	2.73
Maternal Smoking	35.0%	45.2%	14	1.18
Late/No Prenatal Care Initiation	6.1%	6.7%	2	0.13
Mother's Education < 12 years	92.0%	87.1%	27	-1.01
Mother Unmarried	93.8%	87.1%	27	-1.55
Medicaid Payment	53.3%	45.2%	14	-0.91
V. Young Adult (Age 18-24)				
A. Mortality Rate per 100,000				
All Causes	53.8		4	
Internal Causes	10.7		1	
Injury Causes	42.5		3	
Total Unintentional	24.9		2	
Motor Vehicle Accident	21.0		2	
Total Intentional	16.1		1	
Suicide	14.4		1	
Firearm	10.3		1	
B. Hospitalization Rate per 100,000				
All Admissions	5,740.2	11539.2	596	8.01
ACS Admissions	324.4	658.3	34	1.89
Marker Condition Admissions	120.4		18	
ACS/Marker Condition Admissions	2.7	1.9		
Injury Admissions	483.2	948.7	49	2.16
Obstetric Admissions	6,129.9	13415.1	328	6.72
C. Birth-related Rates				
Birth Rate per 1,000 Females	62.5	126.8	310	5.87
Low Birthweight Births	5.7%	6.8%	21	0.80
Maternal Smoking	30.0%	38.1%	118	3.08
Late/No Prenatal Care Initiation	3.0%	4.9%	15	1.93
Mother's Education < 12 years	24.0%	34.5%	107	4.34
Mother Unmarried	51.3%	65.8%	204	5.10
Medicaid Payment	46.7%	63.1%	193	5.73
VI. Adults (Age 25-44)				
A. Mortality Rate per 100,000				
All Causes	113.6	128.5	24	0.27
Internal Causes	69.7		16	
Heart Disease	14.1		7	
Cancer	24.8		4	
Breast (Female)	7.9		3	
Cervix			0	
Colon	1.1		0	
Lung	3.4		0	
Prostate			0	
Diabetes-related Mortality	4.3		1	
Injury Causes	41.7		7	
Total Unintentional	20.4		4	
Motor Vehicle Accident	11.0		3	
Total Intentional	17.7		3	
Suicide	15.2		3	
Firearm	9.5		3	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	56.3		5	
Cervix	12.3		3	
Colon	3.6		0	
Lung	5.3		0	
Prostate			0	
C. Hospitalization Rate per 100,000				
All Admissions	7,719.6	9402.9	1756	3.85
ACS Admissions	409.6	680.1	127	2.59
Marker Condition Admissions	137.1	273.1	51	2.25
ACS/Marker Condition Admissions	3.0	2.5		
Injury Admissions	577.9	835.3	156	2.08
Obstetric Admissions	5,672.3	4400.6	413	-2.38

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
D. Birth-related Rates				
Birth Rate per 1,000 Females	58.8	41.0	385	-3.27
Low Birthweight Births	4.9%	6.0%	23	0.95
Maternal Smoking	13.0%	20.8%	80	4.57
Late/No Prenatal Care Initiation	1.1%	1.3%	5	0.50
Mother's Education < 12 years	4.1%	8.1%	31	3.91
Mother Unmarried	10.5%	20.8%	80	6.58
Medicaid Payment	10.9%	25.1%	96	8.86
VII. Middle Age (Age 45-64)				
A. Mortality Rate per 100,000				
All Causes	589.5	677.4	86	0.58
Internal Causes	547.9	645.9	82	0.67
Heart Disease	148.6	189.1	24	0.53
Cancer	245.8	299.3	38	0.54
Breast (Female)	47.9		5	
Cervix	5.8		0	
Colon	16.5		2	
Lung	78.0		11	
Prostate	7.5		0	
Chronic Obstructive Pulmonary Disease	22.8		5	
Diabetes-related Mortality	52.8		9	
Injury Causes	39.0		4	
Total Unintentional	19.9		1	
Motor Vehicle Accident	8.6		1	
Total Intentional	17.8		3	
Suicide	16.0		2	
Firearm	10.8		2	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	259.6		13	
Cervix	16.5		0	
Colon	39.9		4	
Lung	99.2		15	
Prostate	164.2		16	
C. Hospitalization Rate per 100,000				
All Admissions	9,642.3	11,949.6	1517	3.94
ACS Admissions	1,064.5	1,693.6	215	3.09
Marker Condition Admissions	468.8	653.8	83	1.36
ACS/Marker Condition Admissions	2.3	2.6		
Injury Admissions	758.8	779.8	99	0.12
VIII. Senior (Age 65-74)				
A. Mortality Rate per 100,000				
All Causes	2580.3	2842.2	109	0.46
Internal Causes	2523.4	2816.2	108	0.52
Heart Disease	749.2	782.3	30	0.11
Cancer	958.2	1251.6	48	0.83
Breast (Female)	127.4		1	
Cervix			0	
Colon	77.0		2	
Lung	311.2		14	
Prostate	102.8		3	
Cerebrovascular Disease	124.3		4	
Chronic Obstructive Pulmonary Disease	171.8		8	
Diabetes-related Mortality	296.4		11	
Injury Causes	53.3		1	
Total Unintentional	39.6		1	
Falls	11.8		1	
Motor Vehicle Accident	15.1		0	
Total Intentional	13.5		0	
Suicide	12.6		0	
Firearm	9.6		0	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	443.1		11	
Cervix	11.5		0	
Colon	185.9		10	
Lung	356.6		18	
Prostate	919.6		17	

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Hospitalization Rate per 100,000				
All Admissions	23,993.5	34002.6	1304	6.49
ACS Admissions	3,877.2	6258.1	240	3.42
Marker Condition Admissions	1,323.3	1981.7	76	1.60
ACS/Marker Condition Admissions	2.9	3.2		
Injury Admissions	1,682.1	2529.3	97	1.82
IX. Elderly (Age 75 +)				
A. Mortality Rate per 100,000				
All Causes	8574.0	10814.6	385	2.14
Internal Causes	8410.7	10674.2	380	2.18
Heart Disease	3107.9	4269.7	152	1.79
Cancer	1563.9	1573.0	56	0.02
Breast (Female)	179.3		3	
Cervix			0	
Colon	169.8		9	
Lung	354.9		10	
Prostate	423.0		4	
Cerebrovascular Disease	814.5	898.9	32	0.25
Chronic Obstructive Pulmonary Disease	489.0	561.8	20	0.28
Diabetes-related Mortality	764.8	1039.3	37	0.84
Injury Causes	155.1		5	
Total Unintentional	136.1		5	
Falls	59.5		2	
Motor Vehicle Accident	26.5		3	
Total Intentional	18.6		0	
Suicide	16.4		0	
Firearm	11.4		0	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	421.0		12	
Cervix	13.5		0	
Colon	331.7		18	
Lung	313.7		8	
Prostate	991.7	1680.7	20	1.07
C. Hospitalization Rate per 100,000				
All Admissions	37,030.1	62022.5	2208	13.81
ACS Admissions	7,967.8	17275.3	615	9.17
Marker Condition Admissions	3,224.7	4775.3	170	2.34
ACS/Marker Condition Admissions	2.5	3.6		
Injury Admissions	3,731.4	5646.1	201	2.70

Haverhill HSA

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
I. Socioeconomic Risk Indicators				
A. % Receiving Medicaid / Food Stamps (1997, 1998)				
Children (Age <19)	9.1%	15.1%	250	8.37
Adults (Age 19+)	2.1%	6.6%	291	20.8
B. Unemployment (1995)				
	4.0%	5.3%	168	3.74
People (Age 25-44)	15.4%	12.5%	1	-0.23
People (Age 45-64)	18.9%	26.2%	11	1.20
People (Age 65+)	28.8%	35.3%	128	2.71
D. % Births, Mother's Education <12 Yrs.				
Mothers (Age 18-24)	24.0%	12.4%	14	-2.89
Mothers (Age 25+)	4.1%	4.2%	8	0.05
II. Infant Health (Age <1)				
Health Status, Behaviors, and Barriers				
Infant Mortality per 1,000 live births	5.3		0	
Low Birthweight Mortality	47.6		0	
Normal Birthweight Mortality	2.0		0	
Low Birthweight Births	5.2%	6.0%	19	0.63
Maternal Smoking	17.6%	23.6%	74	2.77
Late/No Prenatal Care Initiation	1.7%	1.6%	5	-0.09
Mother's Education < 12 years	10.9%	9.6%	30	-0.77
Mother's Age < 20	7.3%	10.4%	33	2.10
Mother Unmarried	22.3%	25.5%	81	1.34
Medicaid Payment	20.7%	38.0%	116	7.46
III. Children (Age 1-14)				
A. Mortality Rate per 100,000				
All Causes	18.4		2	
Internal Causes	11.4		1	
Injury Causes	6.5		1	
Motor Vehicle Accident	2.3		1	
B. Hospitalization Rate per 100,000				
All Admissions	1,669.9	1,988.3	119	0.86
ACS Admissions	447.0	534.7	32	0.45
Marker Condition Admissions	114.9		4	
ACS/Marker Condition Admissions	3.9	8.0		
Injury Admissions	241.6	534.7	32	2.07
IV. Adolescents (Age 15-17)				
A. Mortality Rate per 100,000				
All Causes	43.1		1	
Internal Causes	10.4		1	
Injury Causes	32.2		0	
Total Unintentional	19.2		0	
Motor Vehicle Accident	17.0		0	
Total Intentional	12.6		0	
Suicide	9.6		0	
Firearm	9.1		0	
B. Hospitalization Rate per 100,000				
All Admissions	3385.0	4307.7	56	0.82
ACS Admissions	323.4		1	
Marker Condition Admissions	185.0		3	
ACS/Marker Condition Admissions	1.7	0.3		
Injury Admissions	640.8		11	
Obstetric Admissions	1424.2		8	

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
C. Birth-related Rates				
Birth Rate per 1,000 Females	14.4		8	
Low Birthweight Births	8.7%	0.0%	0	-0.88
Maternal Smoking	35.0%	12.5%	1	-1.33
Late/No Prenatal Care Initiation	6.1%	0.0%	0	-0.72
Mother's Education < 12 years	92.0%	100.0%	8	0.83
Mother Unmarried	93.8%	87.5%	7	-0.74
Medicaid Payment	53.3%	37.5%	3	-0.90
V. Young Adult (Age 18-24)				
A. Mortality Rate per 100,000				
All Causes	53.8		5	
Internal Causes	10.7		1	
Injury Causes	42.5		4	
Total Unintentional	24.9		3	
Motor Vehicle Accident	21.0		3	
Total Intentional	16.1		1	
Suicide	14.4		1	
Firearm	10.3		1	
B. Hospitalization Rate per 100,000				
All Admissions	5,740.2	8829.6	215	2.93
ACS Admissions	324.4		5	
Marker Condition Admissions	120.4		4	
ACS/Marker Condition Admissions	2.7	1.25		
Injury Admissions	483.2		19	
Obstetric Admissions	6,129.9	9911.5	112	2.37
C. Birth-related Rates				
Birth Rate per 1,000 Females	62.5	101.8	115	2.44
Low Birthweight Births	5.7%	11.4%	13	2.61
Maternal Smoking	30.0%	35.4%	40	1.24
Late/No Prenatal Care Initiation	3.0%	0.0%	0	-1.89
Mother's Education < 12 years	24.0%	12.4%	14	-2.89
Mother Unmarried	51.3%	47.0%	54	-0.94
Medicaid Payment	46.7%	59.5%	66	2.69
VI. Adults (Age 25-44)				
A. Mortality Rate per 100,000				
All Causes	113.6		8	
Internal Causes	69.7		5	
Heart Disease	14.1		3	
Cancer	24.8		1	
Breast (Female)	7.9		1	
Cervix			0	
Colon	1.1		0	
Lung	3.4		0	
Prostate			0	
Diabetes-related Mortality	4.3		1	
Injury Causes	41.7		3	
Total Unintentional	20.4		3	
Motor Vehicle Accident	11.0		1	
Total Intentional	17.7		0	
Suicide	15.2		0	
Firearm	9.5		0	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	56.3		2	
Cervix	12.3		0	
Colon	3.6		0	
Lung	5.3		0	
Prostate			0	
C. Hospitalization Rate per 100,000				
All Admissions	7,719.6	7414.2	691	-0.49
ACS Admissions	409.6	665.2	62	1.73
Marker Condition Admissions	137.1		13	
ACS/Marker Condition Admissions	3.0	4.8		
Injury Admissions	577.9	590.1	55	0.07
Obstetric Admissions	5,672.3	3871.7	181	-2.38

D. Birth-related Rates	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
Birth Rate per 1,000 Females	58.8	41.7	195	-2.22
Low Birthweight Births	4.9%	3.1%	6	-1.19
Maternal Smoking	13.0%	17.1%	33	1.71
Late/No Prenatal Care Initiation	1.1%	2.6%	5	2.08
Mother's Education < 12 years	4.1%	4.2%	8	0.05
Mother Unmarried	10.5%	10.3%	20	-0.11
Medicaid Payment	10.9%	25.3%	47	6.26
VII. Middle Age (Age 45-64)				
A. Mortality Rate per 100,000				
All Causes	589.5	701.8	42	0.51
Internal Causes	547.9	634.9	38	0.41
Heart Disease	148.6		12	
Cancer	245.8		12	
Breast (Female)	47.9		0	
Cervix	5.8		0	
Colon	16.5		2	
Lung	78.0		6	
Prostate	7.5		0	
Chronic Obstructive Pulmonary Disease	22.8		1	
Diabetes-related Mortality	52.8		7	
Injury Causes	39.0		4	
Total Unintentional	19.9		1	
Motor Vehicle Accident	8.6		0	
Total Intentional	17.8		3	
Suicide	16.0		2	
Firearm	10.8		1	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	259.6		11	
Cervix	16.5		0	
Colon	39.9		2	
Lung	99.2		6	
Prostate	164.2		5	
C. Hospitalization Rate per 100,000				
All Admissions	9,642.3	12765.2	764	3.66
ACS Admissions	1,064.5	1938.2	116	2.95
Marker Condition Admissions	468.8	718.5	43	1.26
ACS/Marker Condition Admissions	2.3	2.7		
Injury Admissions	758.8	1169.6	70	1.64
VIII. Senior (Age 65-74)				
A. Mortality Rate per 100,000				
All Causes	2580.3	3122.5	79	0.77
Internal Causes	2523.4	3043.5	77	0.75
Heart Disease	749.2	988.1	25	0.62
Cancer	958.2	1185.8	30	0.53
Breast (Female)	127.4		1	
Cervix			0	
Colon	77.0		0	
Lung	311.2		16	
Prostate	102.8		0	
Cerebrovascular Disease	124.3		2	
Chronic Obstructive Pulmonary Disease	171.8		4	
Diabetes-related Mortality	296.4		12	
Injury Causes	53.3		0	
Total Unintentional	39.6		0	
Falls	11.8		0	
Motor Vehicle Accident	15.1		0	
Total Intentional	13.5		0	
Suicide	12.6		0	
Firearm	9.6			
B. Cancer Incidence Rate per 100,000				
Breast (Female)	443.1		1	
Cervix	11.5		0	
Colon	185.9		4	
Lung	356.6		13	
Prostate	919.6		16	

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Hospitalization Rate per 100,000				
All Admissions	23,993.5	30000	759	3.16
ACS Admissions	3,877.2	5019.8	127	1.33
Marker Condition Admissions	1,323.3	1620.6	41	0.59
ACS/Marker Condition Admissions	2.9	3.1		
Injury Admissions	1,682.1	2253.0	57	1.00
IX. Elderly (Age 75 +)				
A. Mortality Rate per 100,000				
All Causes	8574.0	11171.9	286	2.10
Internal Causes	8410.7	10703.1	274	1.87
Heart Disease	3107.9	3554.7	91	0.58
Cancer	1563.9	1718.8	44	0.28
Breast (Female)	179.3		2	
Cervix			2	
Colon	169.8		5	
Lung	354.9		10	
Prostate	423.0		3	
Cerebrovascular Disease	814.5	781.3	20	-0.08
Chronic Obstructive Pulmonary Disease	489.0		7	
Diabetes-related Mortality	764.8	1015.6	26	0.65
Injury Causes	155.1		12	
Total Unintentional	136.1		12	
Falls	59.5		6	
Motor Vehicle Accident	26.5		1	
Total Intentional	18.6		0	
Suicide	16.4		0	
Firearm	11.4		0	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	421.0		4	
Cervix	13.5		1	
Colon	331.7		8	
Lung	313.7		9	
Prostate	991.7		11	
C. Hospitalization Rate per 100,000				
All Admissions	37,030.1	44375	1136	3.44
ACS Admissions	7,967.8	10507.8	269	2.12
Marker Condition Admissions	3,224.7	3906.3	100	0.87
ACS/Marker Condition Admissions	2.5	2.69		
Injury Admissions	3,731.4	3945.3	101	0.26

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	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
I. Socioeconomic Risk Indicators				
A. % Receiving Medicaid / Food Stamps (1997, 1998)				
Children (Age <19)	9.1%	9.5%	1,627	1.74
Adults (Age 19+)	2.1%	2.4%	1,067	4.69
B. Unemployment (1995)				
	4.0%	3.3%	1,112	-6.54
C. % Deaths <12 Yrs. Education				
People (Age 25-44)	15.4%	24.3%	28	2.67
People (Age 45-64)	18.9%	25.4%	81	2.94
People (Age 65+)	28.8%	33.6%	662	4.70
D. % Births, Mother's Education <12 Yrs.				
Mothers (Age 18-24)	24.0%	24.2%	237	0.12
Mothers (Age 25+)	4.1%	5.4%	114	3.08
II. Infant Health (Age <1)				
Health Status, Behaviors, and Barriers				
Infant Mortality per 1,000 live births	5.3	6.9	22	1.26
Low Birthweight Mortality	47.6		10	
Normal Birthweight Mortality	2.0		9	
Low Birthweight Births	5.2%	5.4%	171	0.37
Maternal Smoking	17.6%	20.7%	659	4.64
Late/No Prenatal Care Initiation	1.7%	2.7%	83	4.35
Mother's Education < 12 years	10.9%	13.7%	435	5.05
Mother's Age < 20	7.3%	9.6%	306	4.96
Mother Unmarried	22.3%	27.2%	866	6.55
Medicaid Payment	20.7%	25.4%	729	6.23
III. Children (Age 1-14)				
A. Mortality Rate per 100,000				
All Causes	18.4		11	
Internal Causes	11.4		8	
Injury Causes	6.5		2	
Motor Vehicle Accident	2.3		0	
B. Hospitalization Rate per 100,000				
All Admissions	1,669.9	1,958.9	1145	2.44
ACS Admissions	447.0	525.2	307	1.27
Marker Condition Admissions	114.9	80.4	47	-1.10
ACS/Marker Condition Admissions	3.9	6.5		
Injury Admissions	241.6	299.4	175	1.27
IV. Adolescents (Age 15-17)				
A. Mortality Rate per 100,000				
All Causes	43.1		4	
Internal Causes	10.4		0	
Injury Causes	32.2		4	
Total Unintentional	19.2		3	
Motor Vehicle Accident	17.0		2	
Total Intentional	12.6		1	
Suicide	9.6		1	
Firearm	9.1		1	
B. Hospitalization Rate per 100,000				
All Admissions	3385.0	4493.4	561	3.06
ACS Admissions	323.4	280.3	35	-0.38
Marker Condition Admissions	185.0		18	
ACS/Marker Condition Admissions	1.7	1.9		
Injury Admissions	640.8	688.8	86	0.30
Obstetric Admissions	1424.2	1477.4	93	0.16

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Birth-related Rates				
Birth Rate per 1,000 Females	14.4	14.5	91	0.01
Low Birthweight Births	8.7%	13.2%	12	1.50
Maternal Smoking	35.0%	28.6%	26	-1.29
Late/No Prenatal Care Initiation	6.1%	4.5%	4	-0.63
Mother's Education < 12 years	92.0%	94.3%	83	0.79
Mother Unmarried	93.8%	95.6%	87	0.71
Medicaid Payment	53.3%	57.6%	49	0.79
V. Young Adult (Age 18-24)				
A. Mortality Rate per 100,000				
All Causes	53.8		16	
Internal Causes	10.7		3	
Injury Causes	42.5		13	
Total Unintentional	24.9		7	
Motor Vehicle Accident	21.0		5	
Total Intentional	16.1		4	
Suicide	14.4		4	
Firearm	10.3		3	
B. Hospitalization Rate per 100,000				
All Admissions	5,740.2	5658.7	1963	-0.29
ACS Admissions	324.4	317.1	110	-0.11
Marker Condition Admissions	120.4	106.7	37	-0.33
ACS/Marker Condition Admissions	2.7	3.0		
Injury Admissions	483.2	426.6	148	-0.68
Obstetric Admissions	6,129.9	5474.6	969	-1.63
C. Birth-related Rates				
Birth Rate per 1,000 Females	62.5	56.0	992	-1.59
Low Birthweight Births	5.7%	4.6%	46	-1.47
Maternal Smoking	30.0%	31.7%	312	1.12
Late/No Prenatal Care Initiation	3.0%	4.1%	40	2.00
Mother's Education < 12 years	24.0%	24.2%	237	0.12
Mother Unmarried	51.3%	49.5%	490	-1.15
Medicaid Payment	46.7%	48.2%	440	0.88
VI. Adults (Age 25-44)				
A. Mortality Rate per 100,000				
All Causes	113.6	136.6	120	0.91
Internal Causes	69.7	80.8	71	0.56
Heart Disease	14.1		15	
Cancer	24.8	25.0	22	0.02
Breast (Female)	7.9		5	
Cervix			0	
Colon	1.1		1	
Lung	3.4		4	
Prostate			0	
Diabetes-related Mortality	4.3		5	
Injury Causes	41.7	51.2	45	0.62
Total Unintentional	20.4		19	
Motor Vehicle Accident	11.0		9	
Total Intentional	17.7	23.9	21	0.62
Suicide	15.2		17	
Firearm	9.5		10	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	56.3		16	
Cervix	12.3		4	
Colon	3.6		4	
Lung	5.3		8	
Prostate			0	
C. Hospitalization Rate per 100,000				
All Admissions	7,719.6	7641.2	6712	-0.39
ACS Admissions	409.6	389.3	342	-0.42
Marker Condition Admissions	137.1	123.0	108	-0.51
ACS/Marker Condition Admissions	3.0	3.2		
Injury Admissions	577.9	500.9	440	-1.35
Obstetric Admissions	5,672.3	4476.4	2009	-4.90

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
D. Birth-related Rates				
Birth Rate per 1,000 Females	58.8	46.8	2102	-4.82
Low Birthweight Births	4.9%	5.4%	113	0.94
Maternal Smoking	13.0%	15.3%	321	3.22
Late/No Prenatal Care Initiation	1.1%	1.9%	39	3.64
Mother's Education < 12 years	4.1%	5.4%	114	3.10
Mother Unmarried	10.5%	13.7%	288	4.80
Medicaid Payment	10.9%	12.9%	240	2.68
VII. Middle Age (Age 45-64)				
A. Mortality Rate per 100,000				
All Causes	589.5	508.5	338	-1.22
Internal Causes	547.9	461.8	307	-1.34
Heart Disease	148.6	135.4	90	-0.39
Cancer	245.8	204.6	136	-0.96
Breast (Female)	47.9		12	
Cervix	5.8		5	
Colon	16.5		10	
Lung	78.0	63.2	42	-0.61
Prostate	7.5		2	
Chronic Obstructive Pulmonary Disease	22.8		14	
Diabetes-related Mortality	52.8	48.1	32	-0.23
Injury Causes	39.0	43.6	29	0.27
Total Unintentional	19.9		13	
Motor Vehicle Accident	8.6		6	
Total Intentional	17.8		16	
Suicide	16.0		15	
Firearm	10.8		8	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	259.6	241.5	81	-0.29
Cervix	16.5		5	
Colon	39.9	40.6	27	0.04
Lung	99.2	82.7	55	-0.60
Prostate	164.2	145.7	48	-0.37
C. Hospitalization Rate per 100,000				
All Admissions	9,642.3	9206.5	6120	-1.70
ACS Admissions	1,064.5	991.4	659	-0.82
Marker Condition Admissions	468.8	440.8	293	-0.47
ACS/Marker Condition Admissions	2.3	2.2		
Injury Admissions	758.8	675.4	449	-1.11
VIII. Senior (Age 65-74)				
A. Mortality Rate per 100,000				
All Causes	2580.3	2459.2	550	-0.51
Internal Causes	2523.4	2401.1	537	-0.52
Heart Disease	749.2	764.6	171	0.12
Cancer	958.2	876.4	196	-0.56
Breast (Female)	127.4		12	
Cervix			0	
Colon	77.0		18	
Lung	311.2	263.8	59	-0.57
Prostate	102.8		8	
Cerebrovascular Disease	124.3	98.4	22	-0.49
Chronic Obstructive Pulmonary Disease	171.8	161.0	36	-0.18
Diabetes-related Mortality	296.4	313.0	70	0.20
Injury Causes	53.3		12	
Total Unintentional	39.6		8	
Falls	11.8		2	
Motor Vehicle Accident	15.1		4	
Total Intentional	13.5		4	
Suicide	12.6		4	
Firearm	9.6		3	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	443.1	431.9	53	-0.08
Cervix	11.5		1	
Colon	185.9	169.9	38	-0.25
Lung	356.6	406.9	91	0.56
Prostate	919.6	1020.3	103	0.47

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Hospitalization Rate per 100,000				
All Admissions	23,993.5	23617.3	5282	-0.59
ACS Admissions	3,877.2	3930.2	879	0.18
Marker Condition Admissions	1,323.3	1202.8	269	-0.71
ACS/Marker Condition Admissions	2.9	3.3		
Injury Admissions	1,682.1	1475.5	330	-1.07
IX. Elderly (Age 75 +)				
A. Mortality Rate per 100,000				
All Causes	8574.0	8446.9	1705	-0.29
Internal Causes	8410.7	8253.7	1666	-0.36
Heart Disease	3107.9	2913.1	588	-0.71
Cancer	1563.9	1491.2	301	-0.37
Breast (Female)	179.3	160.9	21	-0.22
Cervix			2	
Colon	169.8	109.0	22	-0.94
Lung	354.9	336.9	68	-0.19
Prostate	423.0	378.7	27	-0.26
Cerebrovascular Disease	814.5	931.4	188	0.83
Chronic Obstructive Pulmonary Disease	489.0	535.1	108	0.42
Diabetes-related Mortality	764.8	812.5	164	0.35
Injury Causes	155.1	173.4	35	0.30
Total Unintentional	136.1	158.5	32	0.39
Falls	59.5		14	
Motor Vehicle Accident	26.5		8	
Total Intentional	18.6		3	
Suicide	16.4		3	
Firearm	11.4		3	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	421.0	383.0	50	-0.30
Cervix	13.5		1	
Colon	331.7	267.5	54	-0.71
Lung	313.7	327.0	66	0.15
Prostate	991.7	869.6	62	-0.47
C. Hospitalization Rate per 100,000				
All Admissions	37,030.1	37428.8	7555	0.52
ACS Admissions	7,967.8	8194.2	1654	0.53
Marker Condition Admissions	3,224.7	3061.7	618	-0.59
ACS/Marker Condition Admissions	2.5	2.7		
Injury Admissions	3,731.4	3264.8	659	-1.56

Laconia HSA

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
I. Socioeconomic Risk Indicators				
A. % Receiving Medicaid / Food Stamps (1997, 1998)				
Children (Age <19)	9.1%	12.0%	1,901	12.38
Adults (Age 19+)	2.1%	2.1%	878	0.23
B. Unemployment (1995)				
	4.0%	3.5%	1,098	-4.5
C. % Deaths <12 Yrs. Education				
People (Age 25-44)	15.4%	18.6%	21	0.95
People (Age 45-64)	18.9%	16.7%	68	-1.13
People (Age 65+)	28.8%	22.6%	500	-6.50
D. % Births, Mother's Education <12 Yrs.				
Mothers (Age 18-24)	24.0%	27.5%	279	2.63
Mothers (Age 25+)	4.1%	6.3%	127	4.91
II. Infant Health (Age <1)				
Health Status, Behaviors, and Barriers				
Infant Mortality per 1,000 live births	5.3		17	
Low Birthweight Mortality	47.6		9	
Normal Birthweight Mortality	2.0		6	
Low Birthweight Births	5.2%	5.2%	163	-0.05
Maternal Smoking	17.6%	22.4%	703	7.07
Late/No Prenatal Care Initiation	1.7%	1.6%	49	-0.37
Mother's Education < 12 years	10.9%	15.5%	486	8.24
Mother's Age < 20	7.3%	10.1%	316	5.94
Mother Unmarried	22.3%	28.8%	902	8.63
Medicaid Payment	20.7%	30.6%	948	13.56
III. Children (Age 1-14)				
A. Mortality Rate per 100,000				
All Causes	18.4		6	
Internal Causes	11.4		3	
Injury Causes	6.5		3	
Motor Vehicle Accident	2.3		1	
B. Hospitalization Rate per 100,000				
All Admissions	1,669.9	1,827.9	1045	1.32
ACS Admissions	447.0	456.5	261	0.15
Marker Condition Admissions	114.9	173.2	99	1.84
ACS/Marker Condition Admissions	3.9	2.6		
Injury Admissions	241.6	230.9	132	-0.23
IV. Adolescents (Age 15-17)				
A. Mortality Rate per 100,000				
All Causes	43.1		6	
Internal Causes	10.4		1	
Injury Causes	32.2		5	
Total Unintentional	19.2		4	
Motor Vehicle Accident	17.0		4	
Total Intentional	12.6		1	
Suicide	9.6		1	
Firearm	9.1		0	
B. Hospitalization Rate per 100,000				
All Admissions	3385.0	3494.4	423	0.30
ACS Admissions	323.4	413.1	50	0.78
Marker Condition Admissions	185.0	297.4	36	1.29
ACS/Marker Condition Admissions	1.7	1.4		
Injury Admissions	640.8	619.6	75	-0.13
Obstetric Admissions	1424.2	1368.7	80	-0.16

1993-1997				
	State Rate	HSA Rate	Number	Test Statistic
C. Birth-related Rates				
Birth Rate per 1,000 Females	14.4	14.4	84	-0.02
Low Birthweight Births	8.7%	4.8%	4	-1.29
Maternal Smoking	35.0%	34.5%	29	-0.09
Late/No Prenatal Care Initiation	6.1%	7.1%	6	0.40
Mother's Education < 12 years	92.0%	91.7%	77	-0.12
Mother Unmarried	93.8%	94.0%	79	0.09
Medicaid Payment	53.3%	70.2%	59	3.10
V. Young Adult (Age 18-24)				
A. Mortality Rate per 100,000				
All Causes	53.8		16	
Internal Causes	10.7		2	
Injury Causes	42.5		14	
Total Unintentional	24.9		7	
Motor Vehicle Accident	21.0		4	
Total Intentional	16.1		7	
Suicide	14.4		5	
Firearm	10.3		4	
B. Hospitalization Rate per 100,000				
All Admissions	5,740.2	7525.4	1849	5.38
ACS Admissions	324.4	504.7	124	2.22
Marker Condition Admissions	120.4	240.1	59	2.42
ACS/Marker Condition Admissions	2.7	2.1		
Injury Admissions	483.2	655.3	161	1.74
Obstetric Admissions	6,129.9	8272.9	970	4.33
C. Birth-related Rates				
Birth Rate per 1,000 Females	62.5	86.6	1015	4.81
Low Birthweight Births	5.7%	6.0%	61	0.39
Maternal Smoking	30.0%	33.8%	343	2.61
Late/No Prenatal Care Initiation	3.0%	2.2%	22	-1.57
Mother's Education < 12 years	24.0%	27.5%	279	2.63
Mother Unmarried	51.3%	52.1%	528	0.47
Medicaid Payment	46.7%	53.9%	540	4.57
VI. Adults (Age 25-44)				
A. Mortality Rate per 100,000				
All Causes	113.6	130.9	113	0.67
Internal Causes	69.7	85.7	74	0.80
Heart Disease	14.1		9	
Cancer	24.8	31.3	27	0.54
Breast (Female)	7.9		2	
Cervix			3	
Colon	1.1		0	
Lung	3.4		8	
Prostate			0	
Diabetes-related Mortality	4.3		9	
Injury Causes	41.7	44.0	38	0.15
Total Unintentional	20.4	23.2	20	0.25
Motor Vehicle Accident	11.0		14	
Total Intentional	17.7		13	
Suicide	15.2		10	
Firearm	9.5		9	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	56.3	75.5	33	0.76
Cervix	12.3		6	
Colon	3.6		8	
Lung	5.3		9	
Prostate			0	
C. Hospitalization Rate per 100,000				
All Admissions	7,719.6	7826.7	6758	0.53
ACS Admissions	409.6	517.7	447	2.22
Marker Condition Admissions	137.1	169.1	146	1.14
ACS/Marker Condition Admissions	3.0	3.1		
Injury Admissions	577.9	719.2	621	2.45
Obstetric Admissions	5,672.3	4345.0	1899	-5.36

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
D. Birth-related Rates				
Birth Rate per 1,000 Females	58.8	46.5	2032	-4.89
Low Birthweight Births	4.9%	4.8%	98	-0.22
Maternal Smoking	13.0%	16.2%	329	4.35
Late/No Prenatal Care Initiation	1.1%	1.0%	20	-0.31
Mother's Education < 12 years	4.1%	6.3%	127	4.92
Mother Unmarried	10.5%	14.4%	292	5.70
Medicaid Payment	10.9%	17.3%	347	9.11
VII. Middle Age (Age 45-64)				
A. Mortality Rate per 100,000				
All Causes	589.5	643.8	410	0.80
Internal Causes	547.9	596.7	380	0.75
Heart Disease	148.6	139.8	89	-0.26
Cancer	245.8	281.1	179	0.80
Breast (Female)	47.9		14	
Cervix	5.8		3	
Colon	16.5		13	
Lung	78.0	95.8	61	0.72
Prostate	7.5		6	
Chronic Obstructive Pulmonary Disease	22.8	33.0	21	0.76
Diabetes-related Mortality	52.8	64.4	41	0.57
Injury Causes	39.0	42.4	27	0.19
Total Unintentional	19.9		11	
Motor Vehicle Accident	8.6		4	
Total Intentional	17.8		15	
Suicide	16.0		14	
Firearm	10.8		11	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	259.6	275.6	88	0.25
Cervix	16.5		7	
Colon	39.9	34.5	22	-0.30
Lung	99.2	105.2	67	0.21
Prostate	164.2	163.7	52	-0.01
C. Hospitalization Rate per 100,000				
All Admissions	9,642.3	10374.5	6607	2.80
ACS Admissions	1,064.5	1179.2	751	1.26
Marker Condition Admissions	468.8	576.3	367	1.77
ACS/Marker Condition Admissions	2.3	2.0		
Injury Admissions	758.8	844.8	538	1.12
VIII. Senior (Age 65-74)				
A. Mortality Rate per 100,000				
All Causes	2580.3	2809.8	611	0.95
Internal Causes	2523.4	2736.3	595	0.90
Heart Disease	749.2	841.6	183	0.71
Cancer	958.2	1057.7	230	0.67
Breast (Female)	127.4		14	
Cervix			3	
Colon	77.0		18	
Lung	311.2	354.1	77	0.51
Prostate	102.8		11	
Cerebrovascular Disease	124.3	161.0	35	0.69
Chronic Obstructive Pulmonary Disease	171.8	188.5	41	0.27
Diabetes-related Mortality	296.4	252.9	55	-0.53
Injury Causes	53.3		15	
Total Unintentional	39.6		11	
Falls	11.8		6	
Motor Vehicle Accident	15.1		4	
Total Intentional	13.5		4	
Suicide	12.6		4	
Firearm	9.6		3	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	443.1	584.3	69	1.03
Cervix	11.5		4	
Colon	185.9	216.1	47	0.46
Lung	356.6	275.9	60	-0.89
Prostate	919.6	1087.1	108	0.78

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Hospitalization Rate per 100,000				
All Admissions	23,993.5	27615.5	6005	5.59
ACS Admissions	3,877.2	4488.4	976	2.09
Marker Condition Admissions	1,323.3	1632.6	355	1.78
ACS/Marker Condition Admissions	2.9	2.7		
Injury Admissions	1,682.1	2097.0	456	2.13
IX. Elderly (Age 75 +)				
A. Mortality Rate per 100,000				
All Causes	8574.0	9000.6	1621	0.91
Internal Causes	8410.7	8784.0	1582	0.81
Heart Disease	3107.9	3098.3	558	-0.03
Cancer	1563.9	1588.0	286	0.12
Breast (Female)	179.3		16	
Cervix			0	
Colon	169.8	177.7	32	0.12
Lung	354.9	394.2	71	0.40
Prostate	423.0	403.1	26	-0.11
Cerebrovascular Disease	814.5	971.7	175	1.05
Chronic Obstructive Pulmonary Disease	489.0	649.6	117	1.38
Diabetes-related Mortality	764.8	555.2	100	-1.44
Injury Causes	155.1	199.9	36	0.68
Total Unintentional	136.1	177.7	32	0.68
Falls	59.5		14	
Motor Vehicle Accident	26.5		4	
Total Intentional	18.6		4	
Suicide	16.4		4	
Firearm	11.4		1	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	421.0	415.2	48	-0.04
Cervix	13.5		2	
Colon	331.7	338.7	61	0.07
Lung	313.7	310.9	56	-0.03
Prostate	991.7	852.7	55	-0.50
C. Hospitalization Rate per 100,000				
All Admissions	37,030.1	41671.3	7505	5.77
ACS Admissions	7,967.8	9078.3	1635	2.46
Marker Condition Admissions	3,224.7	3398.1	612	0.59
ACS/Marker Condition Admissions	2.5	2.7		
Injury Admissions	3,731.4	4186.6	754	1.44

Lancaster HSA

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
I. Socioeconomic Risk Indicators				
A. % Receiving Medicaid / Food Stamps (1997, 1998)				
Children (Age <19)	9.1%	18.7%	427	15.83
Adults (Age 19+)	2.1%	3.5%	219	7.52
B. Unemployment (1995)				
	4.0%	7.0%	289	9.8
C. % Deaths <12 Yrs. Education				
People (Age 25-44)	15.4%	18.8%	3	0.37
People (Age 45-64)	18.9%	38.8%	26	4.15
People (Age 65+)	28.8%	42.2%	156	5.66
D. % Births, Mother's Education <12 Yrs.				
Mothers (Age 18-24)	24.0%	19.5%	41	-1.52
Mothers (Age 25+)	4.1%	5.0%	12	0.73
II. Infant Health (Age <1)				
Health Status, Behaviors, and Barriers				
Infant Mortality per 1,000 live births	5.3		4	
Low Birthweight Mortality	47.6		1	
Normal Birthweight Mortality	2.0		2	
Low Birthweight Births	5.2%	5.0%	23	-0.26
Maternal Smoking	17.6%	24.0%	111	3.59
Late/No Prenatal Care Initiation	1.7%	0.4%	2	-2.05
Mother's Education < 12 years	10.9%	14.5%	67	2.44
Mother's Age < 20	7.3%	15.7%	73	6.95
Mother Unmarried	22.3%	41.7%	194	10.03
Medicaid Payment	20.7%	49.1%	225	15.00
III. Children (Age 1-14)				
A. Mortality Rate per 100,000				
All Causes	18.4		1	
Internal Causes	11.4		1	
Injury Causes	6.5		0	
Motor Vehicle Accident	2.3		0	
B. Hospitalization Rate per 100,000				
All Admissions	1,669.9	2,098.7	168	1.34
ACS Admissions	447.0	774.5	62	1.96
Marker Condition Admissions	114.9		6	
ACS/Marker Condition Admissions	3.9	10.3		
Injury Admissions	241.6	324.8	26	0.68
IV. Adolescents (Age 15-17)				
A. Mortality Rate per 100,000				
All Causes	43.1		1	
Internal Causes	10.4		1	
Injury Causes	32.2		0	
Total Unintentional	19.2		0	
Motor Vehicle Accident	17.0		0	
Total Intentional	12.6		0	
Suicide	9.6		0	
Firearm	9.1		0	
B. Hospitalization Rate per 100,000				
All Admissions	3385.0	4474.4	83	1.16
ACS Admissions	323.4		14	
Marker Condition Admissions	185.0		10	
ACS/Marker Condition Admissions	1.7	1.4		
Injury Admissions	640.8		12	
Obstetric Admissions	1424.2		13	

1993-1997				
	State Rate	HSA Rate	Number	Test Statistic
C. Birth-related Rates				
Birth Rate per 1,000 Females	14.4		14	
Low Birthweight Births	8.7%	0.0%	0	-1.16
Maternal Smoking	35.0%	35.7%	5	0.06
Late/No Prenatal Care Initiation	6.1%	0.0%	0	-0.95
Mother's Education < 12 years	92.0%	92.9%	13	0.11
Mother Unmarried	93.8%	92.9%	13	-0.15
Medicaid Payment	53.3%	42.9%	6	-0.79
V. Young Adult (Age 18-24)				
A. Mortality Rate per 100,000				
All Causes	53.8		3	
Internal Causes	10.7		1	
Injury Causes	42.5		2	
Total Unintentional	24.9		1	
Motor Vehicle Accident	21.0		1	
Total Intentional	16.1		1	
Suicide	14.4		1	
Firearm	10.3		1	
B. Hospitalization Rate per 100,000				
All Admissions	5,740.2	11604.3	434	6.89
ACS Admissions	324.4	641.7	24	1.53
Marker Condition Admissions	120.4		8	
ACS/Marker Condition Admissions	2.7	3		
Injury Admissions	483.2	775.4	29	1.15
Obstetric Admissions	6,129.9	12144.8	218	4.75
C. Birth-related Rates				
Birth Rate per 1,000 Females	62.5	117.5	211	4.31
Low Birthweight Births	5.7%	5.7%	12	-0.01
Maternal Smoking	30.0%	29.0%	61	-0.31
Late/No Prenatal Care Initiation	3.0%	1.0%	2	-1.74
Mother's Education < 12 years	24.0%	19.5%	41	-1.52
Mother Unmarried	51.3%	61.1%	129	2.85
Medicaid Payment	46.7%	67.9%	142	6.15
VI. Adults (Age 25-44)				
A. Mortality Rate per 100,000				
All Causes	113.6		16	
Internal Causes	69.7		8	
Heart Disease	14.1		0	
Cancer	24.8		5	
Breast (Female)	7.9		0	
Cervix			0	
Colon	1.1		1	
Lung	3.4		0	
Prostate			0	
Diabetes-related Mortality	4.3		0	
Injury Causes	41.7		8	
Total Unintentional	20.4		6	
Motor Vehicle Accident	11.0		3	
Total Intentional	17.7		2	
Suicide	15.2		2	
Firearm	9.5		3	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	56.3		2	
Cervix	12.3		0	
Colon	3.6		1	
Lung	5.3		1	
Prostate			0	
C. Hospitalization Rate per 100,000				
All Admissions	7,719.6	7931.0	966	0.39
ACS Admissions	409.6	517.2	63	0.83
Marker Condition Admissions	137.1		17	
ACS/Marker Condition Admissions	3.0	3.7		
Injury Admissions	577.9	853.9	104	1.80
Obstetric Admissions	5,672.3	3796.2	231	-2.83

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
D. Birth-related Rates				
Birth Rate per 1,000 Females	58.8	39.3	239	-2.89
Low Birthweight Births	4.9%	4.6%	11	-0.24
Maternal Smoking	13.0%	18.9%	45	2.73
Late/No Prenatal Care Initiation	1.1%	0.0%	0	-1.59
Mother's Education < 12 years	4.1%	5.0%	12	0.73
Mother Unmarried	10.5%	21.3%	51	5.47
Medicaid Payment	10.9%	32.5%	76	10.56
VII. Middle Age (Age 45-64)				
A. Mortality Rate per 100,000				
All Causes	589.5	713.5	68	0.71
Internal Causes	547.9	661.1	63	0.67
Heart Disease	148.6		11	
Cancer	245.8	377.8	36	1.16
Breast (Female)	47.9		3	
Cervix	5.8		1	
Colon	16.5		5	
Lung	78.0		12	
Prostate	7.5		1	
Chronic Obstructive Pulmonary Disease	22.8		1	
Diabetes-related Mortality	52.8		5	
Injury Causes	39.0		5	
Total Unintentional	19.9		4	
Motor Vehicle Accident	8.6		2	
Total Intentional	17.8		1	
Suicide	16.0		1	
Firearm	10.8		1	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	259.6		8	
Cervix	16.5		2	
Colon	39.9		8	
Lung	99.2		10	
Prostate	164.2		4	
C. Hospitalization Rate per 100,000				
All Admissions	9,642.3	14039.9	1338	6.50
ACS Admissions	1,064.5	2224.6	212	4.93
Marker Condition Admissions	468.8	671.6	64	1.30
ACS/Marker Condition Admissions	2.3	3.3		
Injury Admissions	758.8	1259.2	120	2.52
VIII. Senior (Age 65-74)				
A. Mortality Rate per 100,000				
All Causes	2580.3	2503.2	98	-0.14
Internal Causes	2523.4	2452.1	96	-0.13
Heart Disease	749.2	766.3	30	0.06
Cancer	958.2	842.9	33	-0.33
Breast (Female)	127.4		0	
Cervix			0	
Colon	77.0		1	
Lung	311.2		17	
Prostate	102.8		1	
Cerebrovascular Disease	124.3		1	
Chronic Obstructive Pulmonary Disease	171.8		7	
Diabetes-related Mortality	296.4		12	
Injury Causes	53.3		2	
Total Unintentional	39.6		1	
Falls	11.8		0	
Motor Vehicle Accident	15.1		1	
Total Intentional	13.5		1	
Suicide	12.6		1	
Firearm	9.6		1	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	443.1		8	
Cervix	11.5		0	
Colon	185.9		2	
Lung	356.6		13	
Prostate	919.6		12	

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Hospitalization Rate per 100,000				
All Admissions	23,993.5	28275.9	1107	2.81
ACS Admissions	3,877.2	6487.9	254	3.78
Marker Condition Admissions	1,323.3	1251.6	49	-0.18
ACS/Marker Condition Admissions	2.9	5.2		
Injury Admissions	1,682.1	2017.9	79	0.73
IX. Elderly (Age 75 +)				
A. Mortality Rate per 100,000				
All Causes	8574.0	8230.1	279	-0.32
Internal Causes	8410.7	7964.6	270	-0.42
Heart Disease	3107.9	3038.3	103	-0.10
Cancer	1563.9	1327.4	45	-0.50
Breast (Female)	179.3		4	
Cervix			0	
Colon	169.8		5	
Lung	354.9		8	
Prostate	423.0		5	
Cerebrovascular Disease	814.5	678.5	23	-0.39
Chronic Obstructive Pulmonary Disease	489.0	649.0	22	0.60
Diabetes-related Mortality	764.8	767.0	26	0.01
Injury Causes	155.1		9	
Total Unintentional	136.1		9	
Falls	59.5		3	
Motor Vehicle Accident	26.5		2	
Total Intentional	18.6		0	
Suicide	16.4		0	
Firearm	11.4		0	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	421.0		7	
Cervix	13.5		0	
Colon	331.7		14	
Lung	313.7		8	
Prostate	991.7		11	
C. Hospitalization Rate per 100,000				
All Admissions	37,030.1	39557.5	1341	1.36
ACS Admissions	7,967.8	11858.4	402	3.74
Marker Condition Admissions	3,224.7	2890.9	98	-0.49
ACS/Marker Condition Admissions	2.5	4.1		
Injury Admissions	3,731.4	3569.3	121	-0.2

Lebanon HSA

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
I. Socioeconomic Risk Indicators				
A. % Receiving Medicaid / Food Stamps (1997, 1998)				
Children (Age <19)	9.1%	8.3%	1,100	-3.31
Adults (Age 19+)	2.1%	1.8%	623	-3.40
B. Unemployment (1995)				
	4.0%	1.8%	462	-18.00
C. % Deaths <12 Yrs. Education				
People (Age 25-44)	15.4%	17.4%	12	0.46
People (Age 45-64)	18.9%	21.1%	59	0.91
People (Age 65+)	28.8%	28.6%	441	-0.17
D. % Births, Mother's Education <12 Yrs.				
Mothers (Age 18-24)	24.0%	20.3%	133	-2.23
Mothers (Age 25+)	4.1%	3.0%	61	-2.42
II. Infant Health (Age <1)				
Health Status, Behaviors, and Barriers				
Infant Mortality per 1,000 live births	5.3		16	
Low Birthweight Mortality	47.6		6	
Normal Birthweight Mortality	2.0		6	
Low Birthweight Births	5.2%	5.3%	147	0.26
Maternal Smoking	17.6%	14.2%	391	-4.67
Late/No Prenatal Care Initiation	1.7%	1.4%	39	-0.87
Mother's Education < 12 years	10.9%	9.3%	255	-2.69
Mother's Age < 20	7.3%	7.7%	213	0.82
Mother Unmarried	22.3%	21.9%	604	-0.57
Medicaid Payment	20.7%	21.2%	569	0.65
III. Children (Age 1-14)				
A. Mortality Rate per 100,000				
All Causes	18.4		12	
Internal Causes	11.4		5	
Injury Causes	6.5		7	
Motor Vehicle Accident	2.3		0	
B. Hospitalization Rate per 100,000				
All Admissions	1,669.9	2,533.4	1062	6.17
ACS Admissions	447.0	501.0	210	0.74
Marker Condition Admissions	114.9	131.2	55	0.44
ACS/Marker Condition Admissions	3.9	3.8		
Injury Admissions	241.6	391.2	164	2.79
IV. Adolescents (Age 15-17)				
A. Mortality Rate per 100,000				
All Causes	43.1		3	
Internal Causes	10.4		0	
Injury Causes	32.2		3	
Total Unintentional	19.2		1	
Motor Vehicle Accident	17.0		1	
Total Intentional	12.6		2	
Suicide	9.6		2	
Firearm	9.1		1	
B. Hospitalization Rate per 100,000				
All Admissions	3385.0	5033.5	451	3.86
ACS Admissions	323.4	223.2	20	-0.75
Marker Condition Admissions	185.0	256.7	23	0.71
ACS/Marker Condition Admissions	1.7	0.9		
Injury Admissions	640.8	1060.3	95	2.23
Obstetric Admissions	1424.2	1461.2	64	0.09

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
C. Birth-related Rates				
Birth Rate per 1,000 Females	14.4	14.8	65	0.10
Low Birthweight Births	8.7%	10.8%	7	0.58
Maternal Smoking	35.0%	50.8%	33	2.66
Late/No Prenatal Care Initiation	6.1%	6.5%	4	0.12
Mother's Education < 12 years	92.0%	93.8%	61	0.54
Mother Unmarried	93.8%	96.9%	63	1.04
Medicaid Payment	53.3%	60.7%	37	1.14
V. Young Adult (Age 18-24)				
A. Mortality Rate per 100,000				
All Causes	53.8		10	
Internal Causes	10.7		3	
Injury Causes	42.5		6	
Total Unintentional	24.9		3	
Motor Vehicle Accident	21.0		3	
Total Intentional	16.1		3	
Suicide	14.4		3	
Firearm	10.3		1	
B. Hospitalization Rate per 100,000				
All Admissions	5,740.2	4715.9	1606	-3.63
ACS Admissions	324.4	281.9	96	-0.62
Marker Condition Admissions	120.4	108.6	37	-0.28
ACS/Marker Condition Admissions	2.7	2.6		
Injury Admissions	483.2	422.8	144	-0.72
Obstetric Admissions	6,129.9	4091.9	650	-4.79
C. Birth-related Rates				
Birth Rate per 1,000 Females	62.5	41.5	659	-4.90
Low Birthweight Births	5.7%	7.1%	47	1.57
Maternal Smoking	30.0%	26.0%	170	-2.28
Late/No Prenatal Care Initiation	3.0%	3.3%	21	0.36
Mother's Education < 12 years	24.0%	20.3%	133	-2.23
Mother Unmarried	51.3%	51.1%	337	-0.10
Medicaid Payment	46.7%	52.1%	331	2.72
VI. Adults (Age 25-44)				
A. Mortality Rate per 100,000				
All Causes	113.6	103.6	69	-0.34
Internal Causes	69.7	64.6	43	-0.22
Heart Disease	14.1		8	
Cancer	24.8		19	
Breast (Female)	7.9		2	
Cervix			0	
Colon	1.1		1	
Lung	3.4		2	
Prostate			0	
Diabetes-related Mortality	4.3		4	
Injury Causes	41.7	37.5	25	-0.23
Total Unintentional	20.4		12	
Motor Vehicle Accident	11.0		5	
Total Intentional	17.7		10	
Suicide	15.2		10	
Firearm	9.5		7	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	56.3		14	
Cervix	12.3		4	
Colon	3.6		2	
Lung	5.3		2	
Prostate			1	
C. Hospitalization Rate per 100,000				
All Admissions	7,719.6	9730.5	6480	8.70
ACS Admissions	409.6	512.1	341	1.85
Marker Condition Admissions	137.1	160.7	107	0.74
ACS/Marker Condition Admissions	3.0	3.2		
Injury Admissions	577.9	740.3	493	2.47
Obstetric Admissions	5,672.3	5835.9	1960	0.58

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
D. Birth-related Rates				
Birth Rate per 1,000 Females	58.8	60.5	2031	0.59
Low Birthweight Births	4.9%	4.6%	93	-0.74
Maternal Smoking	13.0%	9.3%	188	-4.93
Late/No Prenatal Care Initiation	1.1%	0.7%	14	-1.57
Mother's Education < 12 years	4.1%	3.0%	61	-2.41
Mother Unmarried	10.5%	9.9%	202	-0.81
Medicaid Payment	10.9%	10.2%	201	-1.12
VII. Middle Age (Age 45-64)				
A. Mortality Rate per 100,000				
All Causes	589.5	591.1	283	0.02
Internal Causes	547.9	547.3	262	-0.01
Heart Disease	148.6	167.1	80	0.47
Cancer	245.8	223.5	107	-0.44
Breast (Female)	47.9		9	
Cervix	5.8		1	
Colon	16.5		6	
Lung	78.0	71.0	34	-0.25
Prostate	7.5		2	
Chronic Obstructive Pulmonary Disease	22.8		11	
Diabetes-related Mortality	52.8		16	
Injury Causes	39.0	43.9	21	0.24
Total Unintentional	19.9		15	
Motor Vehicle Accident	8.6		2	
Total Intentional	17.8		6	
Suicide	16.0		6	
Firearm	10.8		6	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	259.6	297.9	72	0.52
Cervix	16.5		3	
Colon	39.9		17	
Lung	99.2	83.6	40	-0.5
Prostate	164.2	130.8	31	-0.57
C. Hospitalization Rate per 100,000				
All Admissions	9,642.3	11,394.3	5,455	5.81
ACS Admissions	1,064.5	1,163.4	557	0.94
Marker Condition Admissions	468.8	476.2	228	0.11
ACS/Marker Condition Admissions	2.3	2.4		
Injury Admissions	758.8	969.2	464	2.37
VIII. Senior (Age 65-74)				
A. Mortality Rate per 100,000				
All Causes	2580.3	2373.2	379	-0.74
Internal Causes	2523.4	2285.5	365	-0.86
Heart Disease	749.2	626.2	100	-0.81
Cancer	958.2	995.6	159	0.22
Breast (Female)	127.4		17	
Cervix			1	
Colon	77.0		7	
Lung	311.2	350.7	56	0.40
Prostate	102.8		5	
Cerebrovascular Disease	124.3		14	
Chronic Obstructive Pulmonary Disease	171.8	194.1	31	0.30
Diabetes-related Mortality	296.4	225.4	36	-0.74
Injury Causes	53.3		13	
Total Unintentional	39.6		7	
Falls	11.8		0	
Motor Vehicle Accident	15.1		2	
Total Intentional	13.5		6	
Suicide	12.6		6	
Firearm	9.6		2	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	443.1	447.5	39	0.03
Cervix	11.5		0	
Colon	185.9		19	
Lung	356.6	300.6	48	-0.53
Prostate	919.6	950.4	69	0.12

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Hospitalization Rate per 100,000				
All Admissions	23,993.5	25641.8	4095	2.18
ACS Admissions	3,877.2	4264.2	681	1.13
Marker Condition Admissions	1,323.3	1033.2	165	-1.43
ACS/Marker Condition Admissions	2.9	4.1		
Injury Admissions	1,682.1	1646.8	263	-0.15
IX. Elderly (Age 75 +)				
A. Mortality Rate per 100,000				
All Causes	8574.0	8433.0	1184	-0.27
Internal Causes	8410.7	8290.6	1164	-0.23
Heart Disease	3107.9	2841.9	399	-0.81
Cancer	1563.9	1517.1	213	-0.20
Breast (Female)	179.3		17	
Cervix			1	
Colon	169.8	149.6	21	-0.26
Lung	354.9	398.9	56	0.39
Prostate	423.0		17	
Cerebrovascular Disease	814.5	826.2	116	0.07
Chronic Obstructive Pulmonary Disease	489.0	470.1	66	-0.14
Diabetes-related Mortality	764.8	762.1	107	-0.02
Injury Causes	155.1	142.5	20	-0.17
Total Unintentional	136.1		14	
Falls	59.5		4	
Motor Vehicle Accident	26.5		1	
Total Intentional	18.6		6	
Suicide	16.4		6	
Firearm	11.4		3	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	421.0	359.1	32	-0.40
Cervix	13.5		1	
Colon	331.7	299.1	42	-0.30
Lung	313.7	227.9	32	-0.81
Prostate	991.7	779.7	40	-0.69
C. Hospitalization Rate per 100,000				
All Admissions	37,030.1	38076.9	5346	1.15
ACS Admissions	7,967.8	8212.3	1153	0.48
Marker Condition Admissions	3,224.7	2891.7	406	-1.00
ACS/Marker Condition Admissions	2.5	2.8		
Injury Admissions	3,731.4	3981.5	559	0.70

Littleton HSA

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
I. Socioeconomic Risk Indicators				
A. % Receiving Medicaid / Food Stamps (1997, 1998)				
Children (Age <19)	9.1%	13.7%	679	11.05
Adults (Age 19+)	2.1%	2.6%	343	3.86
B. Unemployment (1995)				
	4.0%	6.3%	618	11.64
C. % Deaths <12 Yrs. Education				
People (Age 25-44)	15.4%	18.6%	8	0.59
People (Age 45-64)	18.9%	19.3%	32	0.11
People (Age 65+)	28.8%	28.1%	193	-0.42
D. % Births, Mother's Education <12 Yrs.				
Mothers (Age 18-24)	24.0%	25.6%	82	0.68
Mothers (Age 25+)	4.1%	4.5%	29	0.49
II. Infant Health (Age <1)				
Health Status, Behaviors, and Barriers				
Infant Mortality per 1,000 live births	5.3		5	
Low Birthweight Mortality	47.6		1	
Normal Birthweight Mortality	2.0		4	
Low Birthweight Births	5.2%	4.9%	49	-0.43
Maternal Smoking	17.6%	26.2%	260	7.07
Late/No Prenatal Care Initiation	1.7%	1.2%	12	-1.02
Mother's Education < 12 years	10.9%	13.6%	135	2.71
Mother's Age < 20	7.3%	9.4%	94	2.58
Mother Unmarried	22.3%	32.4%	323	7.64
Medicaid Payment	20.7%	38.6%	377	13.80
III. Children (Age 1-14)				
A. Mortality Rate per 100,000				
All Causes	18.4		1	
Internal Causes	11.4		1	
Injury Causes	6.5		0	
Motor Vehicle Accident	2.3		0	
B. Hospitalization Rate per 100,000				
All Admissions	1,669.9	1,568.0	282	-0.48
ACS Admissions	447.0	511.5	92	0.58
Marker Condition Admissions	114.9		19	
ACS/Marker Condition Admissions	3.9	4.8		
Injury Admissions	241.6	155.7	28	-1.05
IV. Adolescents (Age 15-17)				
A. Mortality Rate per 100,000				
All Causes	43.1		2	
Internal Causes	10.4		1	
Injury Causes	32.2		1	
Total Unintentional	19.2		1	
Motor Vehicle Accident	17.0		1	
Total Intentional	12.6		0	
Suicide	9.6		0	
Firearm	9.1		0	
B. Hospitalization Rate per 100,000				
All Admissions	3385.0	3005.5	110	-0.57
ACS Admissions	323.4		19	
Marker Condition Admissions	185.0		3	
ACS/Marker Condition Admissions	1.7	6.3		
Injury Admissions	640.8		16	
Obstetric Admissions	1424.2	1381.2	25	-0.07

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Birth-related Rates				
Birth Rate per 1,000 Females	14.4	13.3	24	-0.19
Low Birthweight Births	8.7%	4.2%	1	-0.79
Maternal Smoking	35.0%	33.3%	8	-0.17
Late/No Prenatal Care Initiation	6.1%	13.0%	3	1.39
Mother's Education < 12 years	92.0%	100.0%	24	1.44
Mother Unmarried	93.8%	95.8%	23	0.41
Medicaid Payment	53.3%	66.7%	16	1.31
V. Young Adult (Age 18-24)				
A. Mortality Rate per 100,000				
All Causes	53.8		5	
Internal Causes	10.7		1	
Injury Causes	42.5		4	
Total Unintentional	24.9		1	
Motor Vehicle Accident	21.0		0	
Total Intentional	16.1		3	
Suicide	14.4		3	
Firearm	10.3		1	
B. Hospitalization Rate per 100,000				
All Admissions	5,740.2	7738.3	544	3.22
ACS Admissions	324.4	554.8	39	1.52
Marker Condition Admissions	120.4		3	
ACS/Marker Condition Admissions	2.7	13		
Injury Admissions	483.2	554.8	39	0.39
Obstetric Admissions	6,129.9	9710.8	319	3.83
C. Birth-related Rates				
Birth Rate per 1,000 Females	62.5	97.7	321	3.73
Low Birthweight Births	5.7%	4.4%	14	-1.05
Maternal Smoking	30.0%	40.5%	130	4.09
Late/No Prenatal Care Initiation	3.0%	1.3%	4	-1.79
Mother's Education < 12 years	24.0%	25.6%	82	0.68
Mother Unmarried	51.3%	56.7%	182	1.92
Medicaid Payment	46.7%	64.0%	203	6.18
VI. Adults (Age 25-44)				
A. Mortality Rate per 100,000				
All Causes	113.6	153.9	43	0.89
Internal Causes	69.7	100.2	28	0.87
Heart Disease	14.1		5	
Cancer	24.8		13	
Breast (Female)	7.9		0	
Cervix			1	
Colon	1.1		0	
Lung	3.4		4	
Prostate			0	
Diabetes-related Mortality	4.3		1	
Injury Causes	41.7		14	
Total Unintentional	20.4		12	
Motor Vehicle Accident	11.0		7	
Total Intentional	17.7		2	
Suicide	15.2		1	
Firearm	9.5		2	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	56.3		11	
Cervix	12.3		2	
Colon	3.6		0	
Lung	5.3		3	
Prostate			0	
C. Hospitalization Rate per 100,000				
All Admissions	7,719.6	6813.4	1904	-2.54
ACS Admissions	409.6	407.9	114	-0.02
Marker Condition Admissions	137.1	82.3	23	-1.11
ACS/Marker Condition Admissions	3.0	5.0		
Injury Admissions	577.9	687.1	192	1.08
Obstetric Admissions	5,672.3	4573.7	641	-2.51

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
D. Birth-related Rates				
Birth Rate per 1,000 Females	58.8	46.4	650	-2.79
Low Birthweight Births	4.9%	5.2%	34	0.35
Maternal Smoking	13.0%	18.7%	121	4.35
Late/No Prenatal Care Initiation	1.1%	0.8%	5	-0.67
Mother's Education < 12 years	4.1%	4.5%	29	0.50
Mother Unmarried	10.5%	18.0%	117	6.26
Medicaid Payment	10.9%	24.8%	157	11.18
VII. Middle Age (Age 45-64)				
A. Mortality Rate per 100,000				
All Causes	589.5	833.7	168	2.03
Internal Causes	547.9	759.3	153	1.82
Heart Disease	148.6	178.7	36	0.50
Cancer	245.8	392.1	79	1.87
Breast (Female)	47.9		8	
Cervix	5.8		2	
Colon	16.5		7	
Lung	78.0	139.0	28	1.38
Prostate	7.5		1	
Chronic Obstructive Pulmonary Disease	22.8		7	
Diabetes-related Mortality	52.8		13	
Injury Causes	39.0		14	
Total Unintentional	19.9		7	
Motor Vehicle Accident	8.6		4	
Total Intentional	17.8		6	
Suicide	16.0		5	
Firearm	10.8		5	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	259.6	313.9	32	0.48
Cervix	16.5		1	
Colon	39.9		7	
Lung	99.2	119.1	24	0.40
Prostate	164.2		5	
C. Hospitalization Rate per 100,000				
All Admissions	9,642.3	9543.4	1923	-0.21
ACS Admissions	1,064.5	1131.5	228	0.41
Marker Condition Admissions	468.8	501.2	101	0.30
ACS/Marker Condition Admissions	2.3	2.3		
Injury Admissions	758.8	843.7	170	0.62
VIII. Senior (Age 65-74)				
A. Mortality Rate per 100,000				
All Causes	2580.3	2878.2	195	0.69
Internal Causes	2523.4	2833.9	192	0.73
Heart Disease	749.2	929.9	63	0.77
Cancer	958.2	1048.0	71	0.34
Breast (Female)	127.4		6	
Cervix			0	
Colon	77.0		6	
Lung	311.2	310.0	21	-0.01
Prostate	102.8		5	
Cerebrovascular Disease	124.3		9	
Chronic Obstructive Pulmonary Disease	171.8		16	
Diabetes-related Mortality	296.4	310.0	21	0.09
Injury Causes	53.3		3	
Total Unintentional	39.6		3	
Falls	11.8		1	
Motor Vehicle Accident	15.1		1	
Total Intentional	13.5		0	
Suicide	12.6		0	
Firearm	9.6		0	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	443.1	540.5	20	0.40
Cervix	11.5		1	
Colon	185.9		13	
Lung	356.6		18	
Prostate	919.6	813.0	25	-0.28

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Hospitalization Rate per 100,000				
All Admissions	23,993.5	23498.2	1592	-0.43
ACS Admissions	3,877.2	4029.5	273	0.29
Marker Condition Admissions	1,323.3	1225.1	83	-0.32
ACS/Marker Condition Admissions	2.9	3.3		
Injury Admissions	1,682.1	1874.5	127	0.55
IX. Elderly (Age 75 +)				
A. Mortality Rate per 100,000				
All Causes	8574.0	8369.4	503	-0.25
Internal Causes	8410.7	8169.7	491	-0.30
Heart Disease	3107.9	3178.0	191	0.14
Cancer	1563.9	1414.3	85	-0.42
Breast (Female)	179.3		9	
Cervix			1	
Colon	169.8		9	
Lung	354.9	332.8	20	-0.13
Prostate	423.0		8	
Cerebrovascular Disease	814.5	565.7	34	-0.96
Chronic Obstructive Pulmonary Disease	489.0	515.8	31	0.13
Diabetes-related Mortality	764.8	965.1	58	0.80
Injury Causes	155.1		12	
Total Unintentional	136.1		10	
Falls	59.5		6	
Motor Vehicle Accident	26.5		1	
Total Intentional	18.6		2	
Suicide	16.4		2	
Firearm	11.4		1	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	421.0		15	
Cervix	13.5		1	
Colon	331.7	382.7	23	0.31
Lung	313.7		18	
Prostate	991.7		16	
C. Hospitalization Rate per 100,000				
All Admissions	37,030.1	32495.8	1953	-3.26
ACS Admissions	7,967.8	7171.4	431	-1.02
Marker Condition Admissions	3,224.7	3028.3	182	-0.39
ACS/Marker Condition Admissions	2.5	2.4		
Injury Admissions	3,731.4	3444.3	207	-0.53

Manchester HSA

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
I. Socioeconomic Risk Indicators				
A. % Receiving Medicaid / Food Stamps (1997, 1998)				
Children (Age <19)	9.1%	11.3%	5,173	16.29
Adults (Age 19+)	2.1%	2.8%	3,187	17.18
B. Unemployment (1995)				
	4.0%	3.9%	3,402	-1.50
C. % Deaths <12 Yrs. Education				
People (Age 25-44)	15.4%	14.4%	40	-0.46
People (Age 45-64)	18.9%	10.7%	103	-6.57
People (Age 65+)	28.8%	23.4%	1212	-8.57
D. % Births, Mother's Education <12 Yrs.				
Mothers (Age 18-24)	24.0%	27.8%	827	4.83
Mothers (Age 25+)	4.1%	6.1%	478	9.06
II. Infant Health (Age <1)				
Health Status, Behaviors, and Barriers				
Infant Mortality per 1,000 live births	5.3	5.1	57	-0.21
Low Birthweight Mortality	47.6	57.9	36	1.21
Normal Birthweight Mortality	2.0		19	-4.58
Low Birthweight Births	5.2%	5.6%	622	1.91
Maternal Smoking	17.6%	18.1%	2012	1.45
Late/No Prenatal Care Initiation	1.7%	2.7%	282	8.10
Mother's Education < 12 years	10.9%	14.0%	1545	10.36
Mother's Age < 20	7.3%	7.8%	868	2.06
Mother Unmarried	22.3%	26.5%	2945	10.60
Medicaid Payment	20.7%	21.3%	2333	1.55
III. Children (Age 1-14)				
A. Mortality Rate per 100,000				
All Causes	18.4	16.5	27	-0.25
Internal Causes	11.4	12.9	21	0.25
Injury Causes	6.5		5	
Motor Vehicle Accident	2.3		0	
B. Hospitalization Rate per 100,000				
All Admissions	1,669.9	1,669.3	2724	-0.01
ACS Admissions	447.0	459.0	749	0.33
Marker Condition Admissions	114.9	112.1	183	-0.14
ACS/Marker Condition Admissions	3.9	4.1		
Injury Admissions	241.6	254.9	416	0.49
IV. Adolescents (Age 15-17)				
A. Mortality Rate per 100,000				
All Causes	43.1		13	
Internal Causes	10.4		5	
Injury Causes	32.2		8	
Total Unintentional	19.2		4	
Motor Vehicle Accident	17.0		3	
Total Intentional	12.6		4	
Suicide	9.6		3	
Firearm	9.1		5	
B. Hospitalization Rate per 100,000				
All Admissions	3385.0	2926.8	906	-1.99
ACS Admissions	323.4	316.6	98	-0.09
Marker Condition Admissions	185.0	180.9	56	-0.08
ACS/Marker Condition Admissions	1.7	1.8		
Injury Admissions	640.8	491.0	152	-1.48
Obstetric Admissions	1424.2	1687.1	254	1.22

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Birth-related Rates				
Birth Rate per 1,000 Females	14.4	17.1	258	1.25
Low Birthweight Births	8.7%	9.4%	24	0.36
Maternal Smoking	35.0%	35.4%	91	0.13
Late/No Prenatal Care Initiation	6.1%	8.0%	19	1.22
Mother's Education < 12 years	92.0%	92.5%	236	0.31
Mother Unmarried	93.8%	93.8%	242	0.00
Medicaid Payment	53.3%	50.2%	128	-1.01
V. Young Adult (Age 18-24)				
A. Mortality Rate per 100,000				
All Causes	53.8	56.2	43	0.13
Internal Causes	10.7		9	
Injury Causes	42.5	43.1	33	0.04
Total Unintentional	24.9		15	
Motor Vehicle Accident	21.0		14	
Total Intentional	16.1		16	
Suicide	14.4		13	
Firearm	10.3		11	
B. Hospitalization Rate per 100,000				
All Admissions	5,740.2	6971.1	5335	6.55
ACS Admissions	324.4	342.3	262	0.39
Marker Condition Admissions	120.4	128.1	98	0.27
ACS/Marker Condition Admissions	2.7	2.7		
Injury Admissions	483.2	547.5	419	1.15
Obstetric Admissions	6,129.9	7796.4	2949	6.04
C. Birth-related Rates				
Birth Rate per 1,000 Females	62.5	79.4	3005	6.08
Low Birthweight Births	5.7%	6.3%	187	1.26
Maternal Smoking	30.0%	29.1%	874	-1.12
Late/No Prenatal Care Initiation	3.0%	4.5%	126	4.44
Mother's Education < 12 years	24.0%	27.8%	827	4.83
Mother Unmarried	51.3%	54.7%	1645	3.74
Medicaid Payment	46.7%	43.8%	1302	-3.18
VI. Adults (Age 25-44)				
A. Mortality Rate per 100,000				
All Causes	113.6	108.0	283	-0.38
Internal Causes	69.7	72.5	190	0.25
Heart Disease	14.1	11.1	29	-0.58
Cancer	24.8	27.9	73	0.44
Breast (Female)	7.9		10	
Cervix			3	
Colon	1.1		1	
Lung	3.4		11	
Prostate			0	
Diabetes-related Mortality	4.3		6	
Injury Causes	41.7	34.7	91	-0.78
Total Unintentional	20.4	17.6	46	-0.45
Motor Vehicle Accident	11.0	8.0	21	-0.66
Total Intentional	17.7	14.5	38	-0.55
Suicide	15.2	10.3	27	-0.91
Firearm	9.5	8.8	23	-0.16
B. Cancer Incidence Rate per 100,000				
Breast (Female)	56.3	49.6	65	-0.46
Cervix	12.3		13	
Colon	3.6		6	
Lung	5.3	8.4	22	0.97
Prostate			1	
C. Hospitalization Rate per 100,000				
All Admissions	7,719.6	8142.8	21330	3.63
ACS Admissions	409.6	445.1	1166	1.27
Marker Condition Admissions	137.1	140.9	369	0.23
ACS/Marker Condition Admissions	3.0	3.2		
Injury Admissions	577.9	636.4	1667	1.76
Obstetric Admissions	5,672.3	5896.2	7732	1.57

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
D. Birth-related Rates				
Birth Rate per 1,000 Females	58.8	59.7	7828	0.62
Low Birthweight Births	4.9%	5.2%	408	1.18
Maternal Smoking	13.0%	13.4%	1046	1.08
Late/No Prenatal Care Initiation	1.1%	1.8%	135	6.18
Mother's Education < 12 years	4.1%	6.1%	478	9.07
Mother Unmarried	10.5%	13.5%	1055	8.61
Medicaid Payment	10.9%	11.7%	902	2.14
VII. Middle Age (Age 45-64)				
A. Mortality Rate per 100,000				
All Causes	589.5	609.9	998	0.48
Internal Causes	547.9	574.5	940	0.65
Heart Disease	148.6	158.3	259	0.46
Cancer	245.8	242.6	397	-0.12
Breast (Female)	47.9	43.9	36	-0.24
Cervix	5.8		6	
Colon	16.5	12.8	21	-0.52
Lung	78.0	77.6	127	-0.03
Prostate	7.5		7	
Chronic Obstructive Pulmonary Disease	22.8	28.7	47	0.71
Diabetes-related Mortality	52.8	51.9	85	-0.07
Injury Causes	39.0	32.4	53	-0.61
Total Unintentional	19.9	17.1	28	-0.36
Motor Vehicle Accident	8.6		8	
Total Intentional	17.8	14.1	23	-0.51
Suicide	16.0	12.2	20	-0.54
Firearm	10.8		11	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	259.6	238.7	196	-0.52
Cervix	16.5		15	
Colon	39.9	37.9	62	-0.19
Lung	99.2	97.2	159	-0.12
Prostate	164.2	157.0	128	-0.23
C. Hospitalization Rate per 100,000				
All Admissions	9,642.3	10114.3	16550	2.89
ACS Admissions	1,064.5	1139.2	1864	1.32
Marker Condition Admissions	468.8	479.1	784	0.27
ACS/Marker Condition Admissions	2.3	2.4		
Injury Admissions	758.8	859.9	1407	2.11
VIII. Senior (Age 65-74)				
A. Mortality Rate per 100,000				
All Causes	2580.3	3126.5	1426	3.29
Internal Causes	2523.4	3080.5	1405	3.39
Heart Disease	749.2	890.2	406	1.56
Cancer	958.2	1170.8	534	2.08
Breast (Female)	127.4	202.5	51	1.49
Cervix			3	
Colon	77.0	81.1	37	0.14
Lung	311.2	379.3	173	1.17
Prostate	102.8	112.6	23	0.20
Cerebrovascular Disease	124.3	151.3	69	0.73
Chronic Obstructive Pulmonary Disease	171.8	219.3	100	1.09
Diabetes-related Mortality	296.4	309.1	141	0.22
Injury Causes	53.3	43.9	20	-0.39
Total Unintentional	39.6		18	
Falls	11.8		5	
Motor Vehicle Accident	15.1		5	
Total Intentional	13.5		1	
Suicide	12.6		1	
Firearm	9.6		0	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	443.1	480.4	121	0.40
Cervix	11.5		1	
Colon	185.9	225.8	103	0.89
Lung	356.6	453.8	207	1.56
Prostate	919.6	1003.7	205	0.56

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Hospitalization Rate per 100,000				
All Admissions	23,993.5	26978.7	12305	6.68
ACS Admissions	3,877.2	4391.6	2003	2.54
Marker Condition Admissions	1,323.3	1486.5	678	1.36
ACS/Marker Condition Admissions	2.9	3.0		
Injury Admissions	1,682.1	1955.7	892	2.03
IX. Elderly (Age 75 +)				
A. Mortality Rate per 100,000				
All Causes	8574.0	10689.6	3976	6.52
Internal Causes	8410.7	10539.1	3920	6.61
Heart Disease	3107.9	4484.5	1668	6.84
Cancer	1563.9	1873.9	697	2.15
Breast (Female)	179.3	207.7	52	0.47
Cervix			2	
Colon	169.8	225.8	84	1.17
Lung	354.9	430.2	160	1.09
Prostate	423.0	443.9	54	0.16
Cerebrovascular Disease	814.5	1040.5	387	2.17
Chronic Obstructive Pulmonary Disease	489.0	556.5	207	0.83
Diabetes-related Mortality	764.8	889.9	331	1.24
Injury Causes	155.1	142.5	53	-0.28
Total Unintentional	136.1	129.0	48	-0.16
Falls	59.5		18	
Motor Vehicle Accident	26.5		12	
Total Intentional	18.6		5	
Suicide	16.4		3	
Firearm	11.4		3	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	421.0	527.3	132	1.16
Cervix	13.5		4	
Colon	331.7	354.9	132	0.35
Lung	313.7	406.0	151	1.42
Prostate	991.7	1356.4	165	1.82
C. Hospitalization Rate per 100,000				
All Admissions	37,030.1	45672.8	16988	15.44
ACS Admissions	7,967.8	9584.6	3565	5.15
Marker Condition Admissions	3,224.7	3804.3	1415	2.83
ACS/Marker Condition Admissions	2.5	2.5		
Injury Admissions	3,731.4	4624.3	1720	4.06

Nashua HSA

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
I. Socioeconomic Risk Indicators				
A. % Receiving Medicaid / Food Stamps (1997, 1998)				
Children (Age <19)	9.1%	6.7%	3,301	-18.67
Adults (Age 19+)	2.1%	1.4%	1,743	-16.11
B. Unemployment (1995)				
	4.0%	4.4%	4,145	6.27
C. % Deaths <12 Yrs. Education				
People (Age 25-44)	15.4%	14.3%	42	-0.52
People (Age 45-64)	18.9%	18.0%	166	-0.70
People (Age 65+)	28.8%	32.7%	1248	5.32
D. % Births, Mother's Education <12 Yrs.				
Mothers (Age 18-24)	24.0%	26.3%	674	2.69
Mothers (Age 25+)	4.1%	3.6%	348	-2.68
II. Infant Health (Age <1)				
Health Status, Behaviors, and Barriers				
Infant Mortality per 1,000 live births	5.3	5.4	68	0.15
Low Birthweight Mortality	47.6	44.7	28	-0.34
Normal Birthweight Mortality	2.0	2.0	24	-0.01
Low Birthweight Births	5.2%	5.0%	627	-1.29
Maternal Smoking	17.6%	14.8%	1872	-8.21
Late/No Prenatal Care Initiation	1.7%	1.1%	131	-5.29
Mother's Education < 12 years	10.9%	10.0%	1263	-3.23
Mother's Age < 20	7.3%	5.9%	752	-5.89
Mother Unmarried	22.3%	18.5%	2336	-10.43
Medicaid Payment	20.7%	15.1%	1866	-15.40
III. Children (Age 1-14)				
A. Mortality Rate per 100,000				
All Causes	18.4	24.6	43	0.85
Internal Causes	11.4	16.0	28	0.81
Injury Causes	6.5		14	
Motor Vehicle Accident	2.3		5	
B. Hospitalization Rate per 100,000				
All Admissions	1,669.9	1,589.2	2774	-1.18
ACS Admissions	447.0	449.7	785	0.08
Marker Condition Admissions	114.9	94.0	164	-1.15
ACS/Marker Condition Admissions	3.9	4.8		
Injury Admissions	241.6	217.7	380	-0.91
IV. Adolescents (Age 15-17)				
A. Mortality Rate per 100,000				
All Causes	43.1		14	
Internal Causes	10.4		5	
Injury Causes	32.2		9	
Total Unintentional	19.2		4	
Motor Vehicle Accident	17.0		3	
Total Intentional	12.6		4	
Suicide	9.6		3	
Firearm	9.1		2	
B. Hospitalization Rate per 100,000				
All Admissions	3385.0	3533.8	1225	0.69
ACS Admissions	323.4	317.3	110	-0.09
Marker Condition Admissions	185.0	112.5	39	-1.40
ACS/Marker Condition Admissions	1.7	2.8		
Injury Admissions	640.8	568.3	197	-0.76
Obstetric Admissions	1424.2	1471.4	248	0.23

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Birth-related Rates				
Birth Rate per 1,000 Females	14.4	14.7	247	0.11
Low Birthweight Births	8.7%	6.9%	17	-1.03
Maternal Smoking	35.0%	31.6%	78	-1.13
Late/No Prenatal Care Initiation	6.1%	2.5%	6	-2.36
Mother's Education < 12 years	92.0%	95.1%	235	1.81
Mother Unmarried	93.8%	96.4%	238	1.66
Medicaid Payment	53.3%	49.0%	120	-1.37
V. Young Adult (Age 18-24)				
A. Mortality Rate per 100,000				
All Causes	53.8	52.5	43	-0.07
Internal Causes	10.7		7	
Injury Causes	42.5	44.0	36	0.09
Total Unintentional	24.9		18	
Motor Vehicle Accident	21.0		14	
Total Intentional	16.1		16	
Suicide	14.4		16	
Firearm	10.3		9	
B. Hospitalization Rate per 100,000				
All Admissions	5,740.2	5811.3	4760	0.39
ACS Admissions	324.4	317.4	260	-0.16
Marker Condition Admissions	120.4	96.4	79	-0.88
ACS/Marker Condition Admissions	2.7	3.3		
Injury Admissions	483.2	439.5	360	-0.81
Obstetric Admissions	6,129.9	6228.5	2535	0.37
C. Birth-related Rates				
Birth Rate per 1,000 Females	62.5	63.4	2580	0.32
Low Birthweight Births	5.7%	5.3%	136	-0.98
Maternal Smoking	30.0%	30.0%	773	-0.05
Late/No Prenatal Care Initiation	3.0%	2.2%	56	-2.46
Mother's Education < 12 years	24.0%	26.3%	674	2.69
Mother Unmarried	51.3%	50.3%	1299	-1.00
Medicaid Payment	46.7%	41.6%	1056	-5.23
VI. Adults (Age 25-44)				
A. Mortality Rate per 100,000				
All Causes	113.6	106.4	301	-0.51
Internal Causes	69.7	70.7	200	0.09
Heart Disease	14.1	14.1	40	0.02
Cancer	24.8	23.7	67	-0.17
Breast (Female)	7.9		9	
Cervix			1	
Colon	1.1		5	
Lung	3.4		4	
Prostate			0	
Diabetes-related Mortality	4.3		16	
Injury Causes	41.7	32.9	93	-1.03
Total Unintentional	20.4	16.3	46	-0.69
Motor Vehicle Accident	11.0	7.8	22	-0.74
Total Intentional	17.7	14.5	41	-0.58
Suicide	15.2	13.1	37	-0.41
Firearm	9.5		18	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	56.3	65.0	92	0.62
Cervix	12.3		18	
Colon	3.6		11	
Lung	5.3		10	
Prostate			1	
C. Hospitalization Rate per 100,000				
All Admissions	7,719.6	7753.6	21937	0.30
ACS Admissions	409.6	361.2	1022	-1.80
Marker Condition Admissions	137.1	134.3	380	-0.18
ACS/Marker Condition Admissions	3.0	2.7		
Injury Admissions	577.9	490.9	1389	-2.73
Obstetric Admissions	5,672.3	6645.0	9404	7.07

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
D. Birth-related Rates				
Birth Rate per 1,000 Females	58.8	69.2	9796	7.46
Low Birthweight Births	4.9%	4.8%	473	-0.47
Maternal Smoking	13.0%	10.4%	1018	-7.50
Late/No Prenatal Care Initiation	1.1%	0.7%	69	-3.32
Mother's Education < 12 years	4.1%	3.6%	347	-2.71
Mother Unmarried	10.5%	8.1%	791	-7.81
Medicaid Payment	10.9%	7.2%	684	-11.81
VII. Middle Age (Age 45-64)				
A. Mortality Rate per 100,000				
All Causes	589.5	534.0	937	-1.36
Internal Causes	547.9	501.0	879	-1.19
Heart Disease	148.6	128.2	225	-0.99
Cancer	245.8	233.7	410	-0.46
Breast (Female)	47.9	49.9	44	0.12
Cervix	5.8		4	
Colon	16.5	19.4	34	0.42
Lung	78.0	71.8	126	-0.42
Prostate	7.5		10	
Chronic Obstructive Pulmonary Disease	22.8	18.2	32	-0.56
Diabetes-related Mortality	52.8	41.6	73	-0.91
Injury Causes	39.0	29.6	52	-0.89
Total Unintentional	19.9	15.4	27	-0.60
Motor Vehicle Accident	8.6		10	
Total Intentional	17.8	13.1	23	-0.66
Suicide	16.0	12.5	22	-0.51
Firearm	10.8		14	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	259.6	279.1	246	0.51
Cervix	16.5		14	
Colon	39.9	39.9	70	0.00
Lung	99.2	90.1	158	-0.55
Prostate	164.2	179.8	157	0.51
C. Hospitalization Rate per 100,000				
All Admissions	9,642.3	8712.8	15287	-5.90
ACS Admissions	1,064.5	867.5	1522	-3.60
Marker Condition Admissions	468.8	461.1	809	-0.21
ACS/Marker Condition Admissions	2.3	1.9		
Injury Admissions	758.8	625.8	1098	-2.87
VIII. Senior (Age 65-74)				
A. Mortality Rate per 100,000				
All Causes	2580.3	2239.3	1108	-2.14
Internal Causes	2523.4	2186.7	1082	-2.14
Heart Disease	749.2	616.4	305	-1.53
Cancer	958.2	812.4	402	-1.49
Breast (Female)	127.4	120.5	33	-0.14
Cervix			1	
Colon	77.0	88.9	44	0.43
Lung	311.2	246.6	122	-1.15
Prostate	102.8	95.0	21	-0.16
Cerebrovascular Disease	124.3	109.1	54	-0.43
Chronic Obstructive Pulmonary Disease	171.8	157.6	78	-0.34
Diabetes-related Mortality	296.4	276.9	137	-0.36
Injury Causes	53.3	50.5	25	-0.12
Total Unintentional	39.6		17	
Falls	11.8		6	
Motor Vehicle Accident	15.1		5	
Total Intentional	13.5		8	
Suicide	12.6		5	
Firearm	9.6		6	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	443.1	376.3	103	-0.74
Cervix	11.5		3	
Colon	185.9	175.8	87	-0.23
Lung	356.6	299.1	148	-0.96
Prostate	919.6	782.8	173	-0.95

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Hospitalization Rate per 100,000				
All Admissions	23,993.5	19139.0	9470	-11.31
ACS Admissions	3,877.2	2991.1	1480	-4.57
Marker Condition Admissions	1,323.3	1178.3	583	-1.26
ACS/Marker Condition Admissions	2.9	2.5		
Injury Admissions	1,682.1	1265.2	626	-3.23
IX. Elderly (Age 75 +)				
A. Mortality Rate per 100,000				
All Causes	8574.0	6949.5	2785	-5.19
Internal Causes	8410.7	6842.2	2742	-5.06
Heart Disease	3107.9	2305.7	924	-4.14
Cancer	1563.9	1312.5	526	-1.81
Breast (Female)	179.3	136.7	37	-0.74
Cervix			3	
Colon	169.8	132.3	53	-0.82
Lung	354.9	326.9	131	-0.42
Prostate	423.0	400.0	52	-0.18
Cerebrovascular Disease	814.5	683.7	274	-1.30
Chronic Obstructive Pulmonary Disease	489.0	389.3	156	-1.28
Diabetes-related Mortality	764.8	671.2	269	-0.96
Injury Causes	155.1	107.3	43	-1.09
Total Unintentional	136.1	79.9	32	-1.37
Falls	59.5		17	
Motor Vehicle Accident	26.5		5	
Total Intentional	18.6		11	
Suicide	16.4		8	
Firearm	11.4		6	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	421.0	387.8	105	-0.38
Cervix	13.5		3	
Colon	331.7	272.0	109	-0.93
Lung	313.7	269.5	108	-0.71
Prostate	991.7	746.2	97	-1.26
C. Hospitalization Rate per 100,000				
All Admissions	37,030.1	28653.8	11483	-15.53
ACS Admissions	7,967.8	6121.0	2453	-6.11
Marker Condition Admissions	3,224.7	2645.0	1060	-2.94
ACS/Marker Condition Admissions	2.5	2.3		
Injury Admissions	3,731.4	2704.9	1084	-4.85

New London HSA

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
I. Socioeconomic Risk Indicators				
A. % Receiving Medicaid / Food Stamps (1997, 1998)				
Children (Age <19)	9.1%	5.6%	220	-7.64
Adults (Age 19+)	2.1%	0.8%	83	-8.73
B. Unemployment (1995)				
	4.0%	2.1%	148	-8.22
C. % Deaths <12 Yrs. Education				
People (Age 25-44)	15.4%	11.1%	3	-0.61
People (Age 45-64)	18.9%	10.7%	9	-1.92
People (Age 65+)	28.8%	19.4%	103	-4.82
D. % Births, Mother's Education <12 Yrs.				
Mothers (Age 18-24)	24.0%	18.2%	28	-1.69
Mothers (Age 25+)	4.1%	2.0%	10	-2.43
II. Infant Health (Age <1)				
Health Status, Behaviors, and Barriers				
Infant Mortality per 1,000 live births	5.3		4	
Low Birthweight Mortality	47.6		3	
Normal Birthweight Mortality	2.0		2	
Low Birthweight Births	5.2%	4.6%	31	-0.70
Maternal Smoking	17.6%	15.1%	101	-1.72
Late/No Prenatal Care Initiation	1.7%	1.4%	9	-0.59
Mother's Education < 12 years	10.9%	6.6%	44	-3.62
Mother's Age < 20	7.3%	4.8%	32	-2.54
Mother Unmarried	22.3%	16.1%	108	-3.90
Medicaid Payment	20.7%	15.1%	100	-3.55
III. Children (Age 1-14)				
A. Mortality Rate per 100,000				
All Causes	18.4		4	
Internal Causes	11.4		3	
Injury Causes	6.5		1	
Motor Vehicle Accident	2.3		0	
B. Hospitalization Rate per 100,000				
All Admissions	1,669.9	1,205.7	170	-1.92
ACS Admissions	447.0	269.5	38	-1.41
Marker Condition Admissions	114.9		18	
ACS/Marker Condition Admissions	3.9	2.1		
Injury Admissions	241.6	212.8	30	-0.31
IV. Adolescents (Age 15-17)				
A. Mortality Rate per 100,000				
All Causes	43.1		1	
Internal Causes	10.4		0	
Injury Causes	32.2		1	
Total Unintentional	19.2		0	
Motor Vehicle Accident	17.0		0	
Total Intentional	12.6		1	
Suicide	9.6		1	
Firearm	9.1		1	
B. Hospitalization Rate per 100,000				
All Admissions	3385.0	3761.6	101	0.48
ACS Admissions	323.4		8	
Marker Condition Admissions	185.0		11	
ACS/Marker Condition Admissions	1.7	0.7		
Injury Admissions	640.8	856.6	23	0.63
Obstetric Admissions	1424.2		8	

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
C. Birth-related Rates				
Birth Rate per 1,000 Females	14.4		7	
Low Birthweight Births	8.7%	14.3%	1	0.52
Maternal Smoking	35.0%	28.6%	2	-0.36
Late/No Prenatal Care Initiation	6.1%	0.0%	0	-0.67
Mother's Education < 12 years	92.0%	85.7%	6	-0.62
Mother Unmarried	93.8%	85.7%	6	-0.89
Medicaid Payment	53.3%	80.0%	4	1.19
V. Young Adult (Age 18-24)				
A. Mortality Rate per 100,000				
All Causes	53.8		5	
Internal Causes	10.7		1	
Injury Causes	42.5		4	
Total Unintentional	24.9		3	
Motor Vehicle Accident	21.0		3	
Total Intentional	16.1		1	
Suicide	14.4		0	
Firearm	10.3		1	
B. Hospitalization Rate per 100,000				
All Admissions	5,740.2	5180.0	331	-0.86
ACS Admissions	324.4		14	
Marker Condition Admissions	120.4		10	
ACS/Marker Condition Admissions	2.7	1.4		
Injury Admissions	483.2	563.4	36	0.41
Obstetric Admissions	6,129.9	4306.2	135	-1.90
C. Birth-related Rates				
Birth Rate per 1,000 Females	62.5	49.4	155	-1.35
Low Birthweight Births	5.7%	5.2%	8	-0.30
Maternal Smoking	30.0%	27.1%	42	-0.80
Late/No Prenatal Care Initiation	3.0%	3.3%	5	0.19
Mother's Education < 12 years	24.0%	18.2%	28	-1.69
Mother Unmarried	51.3%	40.6%	63	-2.66
Medicaid Payment	46.7%	39.6%	61	-1.77
VI. Adults (Age 25-44)				
A. Mortality Rate per 100,000				
All Causes	113.6	126.8	27	0.26
Internal Causes	69.7		12	
Heart Disease	14.1		4	
Cancer	24.8		4	
Breast (Female)	7.9		0	
Cervix			0	
Colon	1.1		0	
Lung	3.4		1	
Prostate			0	
Diabetes-related Mortality	4.3		0	
Injury Causes	41.7		15	
Total Unintentional	20.4		5	
Motor Vehicle Accident	11.0		1	
Total Intentional	17.7		10	
Suicide	15.2		8	
Firearm	9.5		8	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	56.3		5	
Cervix	12.3		1	
Colon	3.6		0	
Lung	5.3		0	
Prostate			0	
C. Hospitalization Rate per 100,000				
All Admissions	7,719.6	6516.4	1388	-2.94
ACS Admissions	409.6	300.5	64	-1.12
Marker Condition Admissions	137.1	140.8	30	0.07
ACS/Marker Condition Admissions	3.0	2.1		
Injury Admissions	577.9	558.7	119	-0.17
Obstetric Admissions	5,672.3	4362.8	469	-2.63

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
D. Birth-related Rates				
Birth Rate per 1,000 Females	58.8	47.4	510	-2.24
Low Birthweight Births	4.9%	4.3%	22	-0.64
Maternal Smoking	13.0%	11.2%	57	-1.16
Late/No Prenatal Care Initiation	1.1%	0.8%	4	-0.57
Mother's Education < 12 years	4.1%	2.0%	10	-2.43
Mother Unmarried	10.5%	7.6%	39	-2.10
Medicaid Payment	10.9%	7.0%	35	-2.85
VII. Middle Age (Age 45-64)				
A. Mortality Rate per 100,000				
All Causes	589.5	570.1	84	-0.14
Internal Causes	547.9	542.9	80	-0.04
Heart Disease	148.6	190.0	28	0.58
Cancer	245.8	230.7	34	-0.17
Breast (Female)	47.9		7	
Cervix	5.8		0	
Colon	16.5		3	
Lung	78.0		7	
Prostate	7.5		0	
Chronic Obstructive Pulmonary Disease	22.8		3	
Diabetes-related Mortality	52.8		8	
Injury Causes	39.0		3	
Total Unintentional	19.9		0	
Motor Vehicle Accident	8.6		0	
Total Intentional	17.8		3	
Suicide	16.0		3	
Firearm	10.8		1	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	259.6	297.7	22	0.29
Cervix	16.5		1	
Colon	39.9		5	
Lung	99.2		14	
Prostate	164.2		17	
C. Hospitalization Rate per 100,000				
All Admissions	9,642.3	9297.6	1370	-0.63
ACS Admissions	1,064.5	780.5	115	-1.50
Marker Condition Admissions	468.8	332.5	49	-1.08
ACS/Marker Condition Admissions	2.3	2.3		
Injury Admissions	758.8	794.0	117	0.22
VIII. Senior (Age 65-74)				
A. Mortality Rate per 100,000				
All Causes	2580.3	2743.8	128	0.32
Internal Causes	2523.4	2701.0	126	0.35
Heart Disease	749.2	771.7	36	0.08
Cancer	958.2	1157.6	54	0.63
Breast (Female)	127.4		6	
Cervix			0	
Colon	77.0		4	
Lung	311.2		12	
Prostate	102.8		3	
Cerebrovascular Disease	124.3		7	
Chronic Obstructive Pulmonary Disease	171.8		5	
Diabetes-related Mortality	296.4		12	
Injury Causes	53.3		2	
Total Unintentional	39.6		2	
Falls	11.8		0	
Motor Vehicle Accident	15.1		2	
Total Intentional	13.5		0	
Suicide	12.6		0	
Firearm	9.6		0	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	443.1		14	
Cervix	11.5		0	
Colon	185.9		4	
Lung	356.6		17	
Prostate	919.6	997.6	21	0.17

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Hospitalization Rate per 100,000				
All Admissions	23,993.5	26473.7	1235	1.77
ACS Admissions	3,877.2	3279.7	153	-0.95
Marker Condition Admissions	1,323.3	1243.3	58	-0.21
ACS/Marker Condition Admissions	2.9	2.6		
Injury Admissions	1,682.1	1972.1	92	0.69
IX. Elderly (Age 75 +)				
A. Mortality Rate per 100,000				
All Causes	8574.0	9444.4	408	0.91
Internal Causes	8410.7	9027.8	390	0.65
Heart Disease	3107.9	3449.1	149	0.58
Cancer	1563.9	1597.2	69	0.08
Breast (Female)	179.3		6	
Cervix			0	
Colon	169.8		8	
Lung	354.9		17	
Prostate	423.0		7	
Cerebrovascular Disease	814.5	949.1	41	0.44
Chronic Obstructive Pulmonary Disease	489.0	509.3	22	0.09
Diabetes-related Mortality	764.8	648.1	28	-0.39
Injury Causes	155.1		13	
Total Unintentional	136.1		12	
Falls	59.5		1	
Motor Vehicle Accident	26.5		4	
Total Intentional	18.6		1	
Suicide	16.4		0	
Firearm	11.4		0	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	421.0		18	
Cervix	13.5		0	
Colon	331.7		14	
Lung	313.7		11	
Prostate	991.7		19	
C. Hospitalization Rate per 100,000				
All Admissions	37,030.1	42546.3	1838	3.36
ACS Admissions	7,967.8	8888.9	384	1.00
Marker Condition Admissions	3,224.7	3402.8	147	0.30
ACS/Marker Condition Admissions	2.5	2.6		
Injury Admissions	3,731.4	5486.1	237	2.72

Peterborough HSA

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
I. Socioeconomic Risk Indicators				
A. % Receiving Medicaid / Food Stamps (1997, 1998)				
Children (Age <19)	9.1%	7.2%	716	-6.62
Adults (Age 19+)	2.1%	1.6%	372	-5.6
B. Unemployment (1995)				
	4.0%	3.7%	671	-2.05
C. % Deaths <12 Yrs. Education				
People (Age 25-44)	15.4%	20.8%	11	1.09
People (Age 45-64)	18.9%	18.1%	32	-0.29
People (Age 65+)	28.8%	24.7%	245	-2.87
D. % Births, Mother's Education <12 Yrs.				
Mothers (Age 18-24)	24.0%	20.8%	124	-1.84
Mothers (Age 25+)	4.1%	5.1%	77	1.87
II. Infant Health (Age <1)				
Health Status, Behaviors, and Barriers				
Infant Mortality per 1,000 live births	5.3		16	
Low Birthweight Mortality	47.6		8	
Normal Birthweight Mortality	2.0		5	
Low Birthweight Births	5.2%	5.3%	116	0.20
Maternal Smoking	17.6%	21.3%	464	4.53
Late/No Prenatal Care Initiation	1.7%	2.4%	52	2.86
Mother's Education < 12 years	10.9%	11.1%	241	0.26
Mother's Age < 20	7.3%	8.0%	175	1.25
Mother Unmarried	22.3%	18.5%	404	-4.31
Medicaid Payment	20.7%	20.0%	422	-0.87
III. Children (Age 1-14)				
A. Mortality Rate per 100,000				
All Causes	18.4		8	
Internal Causes	11.4		4	
Injury Causes	6.5		3	
Motor Vehicle Accident	2.3		2	
B. Hospitalization Rate per 100,000				
All Admissions	1,669.9	1,551.7	522	-0.76
ACS Admissions	447.0	392.4	132	-0.67
Marker Condition Admissions	114.9	115.9	39	0.03
ACS/Marker Condition Admissions	3.9	3.4		
Injury Admissions	241.6	199.2	67	-0.71
IV. Adolescents (Age 15-17)				
A. Mortality Rate per 100,000				
All Causes	43.1		7	
Internal Causes	10.4		1	
Injury Causes	32.2		6	
Total Unintentional	19.2		4	
Motor Vehicle Accident	17.0		4	
Total Intentional	12.6		2	
Suicide	9.6		2	
Firearm	9.1		1	
B. Hospitalization Rate per 100,000				
All Admissions	3385.0	3501.8	239	0.24
ACS Admissions	323.4	366.3	25	0.28
Marker Condition Admissions	185.0		12	
ACS/Marker Condition Admissions	1.7	2.1		
Injury Admissions	640.8	659.3	45	0.09
Obstetric Admissions	1424.2	1407.6	48	-0.04

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Birth-related Rates				
Birth Rate per 1,000 Females	14.4	13.8	47	-0.14
Low Birthweight Births	8.7%	10.6%	5	0.46
Maternal Smoking	35.0%	48.9%	23	2.00
Late/No Prenatal Care Initiation	6.1%	4.3%	2	-0.49
Mother's Education < 12 years	92.0%	83.0%	39	-2.29
Mother Unmarried	93.8%	80.9%	38	-3.68
Medicaid Payment	53.3%	38.3%	18	-2.07
V. Young Adult (Age 18-24)				
A. Mortality Rate per 100,000				
All Causes	53.8		8	
Internal Causes	10.7		0	
Injury Causes	42.5		8	
Total Unintentional	24.9		5	
Motor Vehicle Accident	21.0		5	
Total Intentional	16.1		3	
Suicide	14.4		3	
Firearm	10.3		3	
B. Hospitalization Rate per 100,000				
All Admissions	5,740.2	5115.1	1044	-1.72
ACS Admissions	324.4	294.0	60	-0.34
Marker Condition Admissions	120.4		15	
ACS/Marker Condition Admissions	2.7	4.0		
Injury Admissions	483.2	460.6	94	-0.21
Obstetric Admissions	6,129.9	5703.1	584	-0.81
C. Birth-related Rates				
Birth Rate per 1,000 Females	62.5	58.7	601	-0.72
Low Birthweight Births	5.7%	6.2%	37	0.47
Maternal Smoking	30.0%	32.3%	194	1.20
Late/No Prenatal Care Initiation	3.0%	3.8%	22	1.05
Mother's Education < 12 years	24.0%	20.8%	124	-1.84
Mother Unmarried	51.3%	40.4%	243	-5.34
Medicaid Payment	46.7%	38.1%	225	-4.22
VI. Adults (Age 25-44)				
A. Mortality Rate per 100,000				
All Causes	113.6	102.6	53	-0.33
Internal Causes	69.7	65.8	34	-0.15
Heart Disease	14.1		8	
Cancer	24.8		8	
Breast (Female)	7.9		2	
Cervix			1	
Colon	1.1		0	
Lung	3.4		0	
Prostate			0	
Diabetes-related Mortality	4.3		2	
Injury Causes	41.7		17	
Total Unintentional	20.4		9	
Motor Vehicle Accident	11.0		5	
Total Intentional	17.7		7	
Suicide	15.2		4	
Firearm	9.5		2	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	56.3		14	
Cervix	12.3		4	
Colon	3.6		1	
Lung	5.3		0	
Prostate			0	
C. Hospitalization Rate per 100,000				
All Admissions	7,719.6	6880.3	3554	-3.20
ACS Admissions	409.6	352.3	182	-0.91
Marker Condition Admissions	137.1	106.5	55	-0.84
ACS/Marker Condition Admissions	3.0	3.3		
Injury Admissions	577.9	495.6	256	-1.10
Obstetric Admissions	5,672.3	5700.6	1483	0.09

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
D. Birth-related Rates				
Birth Rate per 1,000 Females	58.8	58.9	1532	0.03
Low Birthweight Births	4.9%	4.8%	73	-0.30
Maternal Smoking	13.0%	16.2%	247	3.77
Late/No Prenatal Care Initiation	1.1%	1.9%	28	3.08
Mother's Education < 12 years	4.1%	5.1%	77	1.89
Mother Unmarried	10.5%	8.0%	122	-3.22
Medicaid Payment	10.9%	12.1%	178	1.42
VII. Middle Age (Age 45-64)				
A. Mortality Rate per 100,000				
All Causes	589.5	560.2	182	-0.31
Internal Causes	547.9	520.2	169	-0.30
Heart Disease	148.6	113.9	37	-0.73
Cancer	245.8	255.5	83	0.16
Breast (Female)	47.9		10	
Cervix	5.8		0	
Colon	16.5		4	
Lung	78.0	83.1	27	0.15
Prostate	7.5		1	
Chronic Obstructive Pulmonary Disease	22.8		4	
Diabetes-related Mortality	52.8		16	
Injury Causes	39.0		13	
Total Unintentional	19.9		8	
Motor Vehicle Accident	8.6		4	
Total Intentional	17.8		4	
Suicide	16.0		4	
Firearm	10.8		3	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	259.6	269.2	44	0.11
Cervix	16.5		1	
Colon	39.9		13	
Lung	99.2	80.0	26	-0.49
Prostate	164.2	179.7	29	0.22
C. Hospitalization Rate per 100,000				
All Admissions	9,642.3	9024.3	2932	-1.69
ACS Admissions	1,064.5	1031.1	335	-0.26
Marker Condition Admissions	468.8	520.2	169	0.61
ACS/Marker Condition Admissions	2.3	2.0		
Injury Admissions	758.8	695.6	226	-0.59
VIII. Senior (Age 65-74)				
A. Mortality Rate per 100,000				
All Causes	2580.3	2329.3	249	-0.73
Internal Causes	2523.4	2226.4	238	-0.88
Heart Disease	749.2	636.1	68	-0.61
Cancer	958.2	739.0	79	-1.04
Breast (Female)	127.4		5	
Cervix			1	
Colon	77.0		8	
Lung	311.2		19	
Prostate	102.8		4	
Cerebrovascular Disease	124.3		13	
Chronic Obstructive Pulmonary Disease	171.8	205.8	22	0.38
Diabetes-related Mortality	296.4	224.5	24	-0.61
Injury Causes	53.3		10	
Total Unintentional	39.6		7	
Falls	11.8		2	
Motor Vehicle Accident	15.1		2	
Total Intentional	13.5		3	
Suicide	12.6		3	
Firearm	9.6		3	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	443.1	440.7	26	-0.01
Cervix	11.5		1	
Colon	185.9		18	
Lung	356.6	243.2	26	-0.88
Prostate	919.6	855.9	41	-0.21

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Hospitalization Rate per 100,000				
All Admissions	23,993.5	21571.6	2306	-2.62
ACS Admissions	3,877.2	2974.7	318	-2.16
Marker Condition Admissions	1,323.3	1244.2	133	-0.32
ACS/Marker Condition Admissions	2.9	2.4		
Injury Admissions	1,682.1	1721.2	184	0.14
IX. Elderly (Age 75 +)				
A. Mortality Rate per 100,000				
All Causes	8574.0	8186.2	765	-0.60
Internal Causes	8410.7	8015.0	749	-0.62
Heart Disease	3107.9	2835.7	265	-0.68
Cancer	1563.9	1359.0	127	-0.71
Breast (Female)	179.3		11	
Cervix			0	
Colon	169.8		15	
Lung	354.9	246.1	23	-0.79
Prostate	423.0		15	
Cerebrovascular Disease	814.5	770.5	72	-0.21
Chronic Obstructive Pulmonary Disease	489.0	460.1	43	-0.18
Diabetes-related Mortality	764.8	631.4	59	-0.66
Injury Causes	155.1		15	
Total Unintentional	136.1		9	
Falls	59.5		3	
Motor Vehicle Accident	26.5		5	
Total Intentional	18.6		6	
Suicide	16.4		6	
Firearm	11.4		6	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	421.0	433.0	27	0.07
Cervix	13.5		2	
Colon	331.7	353.1	33	0.16
Lung	313.7	224.7	21	-0.69
Prostate	991.7	964.6	30	-0.07
C. Hospitalization Rate per 100,000				
All Admissions	37,030.1	34039.6	3181	-2.68
ACS Admissions	7,967.8	6559.7	613	-2.25
Marker Condition Admissions	3,224.7	3103.3	290	-0.30
ACS/Marker Condition Admissions	2.5	2.1		
Injury Admissions	3,731.4	4248.3	397	1.18

Plymouth HSA

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
I. Socioeconomic Risk Indicators				
A. % Receiving Medicaid / Food Stamps (1997, 1998)				
Children (Age <19)	9.1%	9.5%	400	0.89
Adults (Age 19+)	2.1%	1.3%	136	-5.35
B. Unemployment (1995)				
	4.0%	3.0%	245	-4.62
C. % Deaths <12 Yrs. Education				
People (Age 25-44)	15.4%	15.4%	4	0.00
People (Age 45-64)	18.9%	32.4%	23	2.89
People (Age 65+)	28.8%	30.8%	116	0.83
D. % Births, Mother's Education <12 Yrs.				
Mothers (Age 18-24)	24.0%	21.8%	45	-0.72
Mothers (Age 25+)	4.1%	4.3%	19	0.23
II. Infant Health (Age <1)				
Health Status, Behaviors, and Barriers				
Infant Mortality per 1,000 live births	5.3		2	
Low Birthweight Mortality	47.6		1	
Normal Birthweight Mortality	2.0		0	
Low Birthweight Births	5.2%	3.4%	23	-2.09
Maternal Smoking	17.6%	20.9%	140	2.23
Late/No Prenatal Care Initiation	1.7%	2.1%	14	0.90
Mother's Education < 12 years	10.9%	12.2%	81	1.03
Mother's Age < 20	7.3%	7.9%	53	0.58
Mother Unmarried	22.3%	24.1%	162	1.12
Medicaid Payment	20.7%	31.5%	209	6.86
III. Children (Age 1-14)				
A. Mortality Rate per 100,000				
All Causes	18.4		3	
Internal Causes	11.4		1	
Injury Causes	6.5		2	
Motor Vehicle Accident	2.3		2	
B. Hospitalization Rate per 100,000				
All Admissions	1,669.9	1,466.3	186	-0.80
ACS Admissions	447.0	346.9	44	-0.76
Marker Condition Admissions	114.9	205.0	26	1.34
ACS/Marker Condition Admissions	3.9	1.7		
Injury Admissions	241.6	323.2	41	0.84
IV. Adolescents (Age 15-17)				
A. Mortality Rate per 100,000				
All Causes	43.1		1	
Internal Causes	10.4		1	
Injury Causes	32.2		0	
Total Unintentional	19.2		0	
Motor Vehicle Accident	17.0		0	
Total Intentional	12.6		0	
Suicide	9.6		0	
Firearm	9.1		0	
B. Hospitalization Rate per 100,000				
All Admissions	3385.0	3625.3	89	0.29
ACS Admissions	323.4		5	
Marker Condition Admissions	185.0		6	
ACS/Marker Condition Admissions	1.7	0.8		
Injury Admissions	640.8	814.7	20	0.48
Obstetric Admissions	1424.2		18	

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
C. Birth-related Rates				
Birth Rate per 1,000 Females	14.4		19	
Low Birthweight Births	8.7%	15.8%	3	1.09
Maternal Smoking	35.0%	47.4%	9	1.13
Late/No Prenatal Care Initiation	6.1%	26.3%	5	3.69
Mother's Education < 12 years	92.0%	89.5%	17	-0.41
Mother Unmarried	93.8%	94.7%	18	0.17
Medicaid Payment	53.3%	36.8%	7	-1.44
V. Young Adult (Age 18-24)				
A. Mortality Rate per 100,000				
All Causes	53.8		1	
Internal Causes	10.7		0	
Injury Causes	42.5		1	
Total Unintentional	24.9		1	
Motor Vehicle Accident	21.0		0	
Total Intentional	16.1		0	
Suicide	14.4		0	
Firearm	10.3		0	
B. Hospitalization Rate per 100,000				
All Admissions	5,740.2	2482.8	450	-8.43
ACS Admissions	324.4	182.1	33	-1.51
Marker Condition Admissions	120.4		13	
ACS/Marker Condition Admissions	2.7	2.5		
Injury Admissions	483.2	259.3	47	-1.94
Obstetric Admissions	6,129.9	2467.5	209	-6.28
C. Birth-related Rates				
Birth Rate per 1,000 Females	62.5	24.6	208	-6.46
Low Birthweight Births	5.7%	5.8%	12	0.03
Maternal Smoking	30.0%	30.0%	62	-0.03
Late/No Prenatal Care Initiation	3.0%	2.9%	6	-0.08
Mother's Education < 12 years	24.0%	21.8%	45	-0.72
Mother Unmarried	51.3%	45.2%	94	-1.77
Medicaid Payment	46.7%	60.7%	125	4.01
VI. Adults (Age 25-44)				
A. Mortality Rate per 100,000				
All Causes	113.6	130.0	26	0.31
Internal Causes	69.7		17	
Heart Disease	14.1		5	
Cancer	24.8		9	
Breast (Female)	7.9		1	
Cervix			0	
Colon	1.1		0	
Lung	3.4		4	
Prostate			0	
Diabetes-related Mortality	4.3		1	
Injury Causes	41.7		9	
Total Unintentional	20.4		8	
Motor Vehicle Accident	11.0		2	
Total Intentional	17.7		0	
Suicide	15.2		0	
Firearm	9.5		1	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	56.3		5	
Cervix	12.3		2	
Colon	3.6		1	
Lung	5.3		3	
Prostate			0	
C. Hospitalization Rate per 100,000				
All Admissions	7,719.6	7053.2	1411	-1.58
ACS Admissions	409.6	474.9	95	0.65
Marker Condition Admissions	137.1	195.0	39	0.99
ACS/Marker Condition Admissions	3.0	2.4		
Injury Admissions	577.9	654.8	131	0.64
Obstetric Admissions	5,672.3	4292.8	431	-2.67

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
D. Birth-related Rates				
Birth Rate per 1,000 Females	58.8	44.2	444	-2.78
Low Birthweight Births	4.9%	1.8%	8	-3.05
Maternal Smoking	13.0%	15.5%	69	1.62
Late/No Prenatal Care Initiation	1.1%	0.7%	3	-0.78
Mother's Education < 12 years	4.1%	4.3%	19	0.23
Mother Unmarried	10.5%	11.3%	50	0.53
Medicaid Payment	10.9%	17.6%	77	4.45
VII. Middle Age (Age 45-64)				
A. Mortality Rate per 100,000				
All Causes	589.5	539.5	73	-0.34
Internal Causes	547.9	495.2	67	-0.37
Heart Disease	148.6	147.8	20	-0.01
Cancer	245.8	170.0	23	-0.80
Breast (Female)	47.9		2	
Cervix	5.8		0	
Colon	16.5		4	
Lung	78.0		8	
Prostate	7.5		0	
Chronic Obstructive Pulmonary Disease	22.8		2	
Diabetes-related Mortality	52.8		7	
Injury Causes	39.0		6	
Total Unintentional	19.9		2	
Motor Vehicle Accident	8.6		2	
Total Intentional	17.8		4	
Suicide	16.0		3	
Firearm	10.8		2	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	259.6		16	
Cervix	16.5		2	
Colon	39.9		9	
Lung	99.2		8	
Prostate	164.2		10	
C. Hospitalization Rate per 100,000				
All Admissions	9,642.3	10369.5	1403	1.28
ACS Admissions	1,064.5	1189.9	161	0.64
Marker Condition Admissions	468.8	510.0	69	0.31
ACS/Marker Condition Admissions	2.3	2.3		
Injury Admissions	758.8	886.9	120	0.77
VIII. Senior (Age 65-74)				
A. Mortality Rate per 100,000				
All Causes	2580.3	2505.3	118	-0.15
Internal Causes	2523.4	2420.4	114	-0.20
Heart Disease	749.2	636.9	30	-0.40
Cancer	958.2	1061.6	50	0.33
Breast (Female)	127.4		3	
Cervix			1	
Colon	77.0		4	
Lung	311.2	445.9	21	0.74
Prostate	102.8		4	
Cerebrovascular Disease	124.3		5	
Chronic Obstructive Pulmonary Disease	171.8		10	
Diabetes-related Mortality	296.4		10	
Injury Causes	53.3		4	
Total Unintentional	39.6		4	
Falls	11.8		2	
Motor Vehicle Accident	15.1		1	
Total Intentional	13.5		0	
Suicide	12.6		0	
Firearm	9.6		0	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	443.1		14	
Cervix	11.5		1	
Colon	185.9		9	
Lung	356.6		19	
Prostate	919.6		17	

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Hospitalization Rate per 100,000				
All Admissions	23,993.5	26178.3	1233	1.57
ACS Admissions	3,877.2	4373.7	206	0.79
Marker Condition Admissions	1,323.3	1189.0	56	-0.36
ACS/Marker Condition Admissions	2.9	3.7		
Injury Admissions	1,682.1	1656.1	78	-0.06
IX. Elderly (Age 75 +)				
A. Mortality Rate per 100,000				
All Causes	8574.0	6649.9	264	-1.94
Internal Causes	8410.7	6574.3	261	-1.86
Heart Disease	3107.9	2418.1	96	-1.12
Cancer	1563.9	1561.7	62	-0.01
Breast (Female)	179.3		1	
Cervix			0	
Colon	169.8		8	
Lung	354.9		10	
Prostate	423.0		5	
Cerebrovascular Disease	814.5		13	
Chronic Obstructive Pulmonary Disease	489.0		16	
Diabetes-related Mortality	764.8		15	
Injury Causes	155.1		3	
Total Unintentional	136.1		3	
Falls	59.5		1	
Motor Vehicle Accident	26.5		0	
Total Intentional	18.6		0	
Suicide	16.4		0	
Firearm	11.4		0	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	421.0		14	
Cervix	13.5		0	
Colon	331.7		19	
Lung	313.7		12	
Prostate	991.7		6	
C. Hospitalization Rate per 100,000				
All Admissions	37,030.1	33652.4	1336	-1.97
ACS Admissions	7,967.8	7556.7	300	-0.43
Marker Condition Admissions	3,224.7	2367.8	94	-1.37
ACS/Marker Condition Admissions	2.5	3.2		
Injury Admissions	3,731.4	2367.8	94	-2.03

Portsmouth HSA

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
I. Socioeconomic Risk Indicators				
A. % Receiving Medicaid / Food Stamps (1997, 1998)				
Children (Age <19)	9.1%	7.3%	649	-6.04
Adults (Age 19+)	2.1%	2.7%	633	6.86
B. Unemployment (1995)				
	4.0%	2.8%	501	-8.13
C. % Deaths <12 Yrs. Education				
People (Age 25-44)	15.4%	14.1%	9	-0.29
People (Age 45-64)	18.9%	14.6%	28	-1.54
People (Age 65+)	28.8%	21.8%	283	-5.62
D. % Births, Mother's Education <12 Yrs.				
Mothers (Age 18-24)	24.0%	18.8%	55	-2.09
Mothers (Age 25+)	4.1%	2.6%	34	-2.80
II. Infant Health (Age <1)				
Health Status, Behaviors, and Barriers				
Infant Mortality per 1,000 live births	5.3		9	
Low Birthweight Mortality	47.6		4	
Normal Birthweight Mortality	2.0		4	
Low Birthweight Births	5.2%	6.0%	98	1.35
Maternal Smoking	17.6%	14.5%	239	-3.29
Late/No Prenatal Care Initiation	1.7%	1.3%	20	-1.18
Mother's Education < 12 years	10.9%	6.6%	108	-5.60
Mother's Age < 20	7.3%	4.5%	75	-4.31
Mother Unmarried	22.3%	22.4%	370	0.09
Medicaid Payment	20.7%	21.7%	335	0.95
III. Children (Age 1-14)				
A. Mortality Rate per 100,000				
All Causes	18.4		3	
Internal Causes	11.4		3	
Injury Causes	6.5		0	
Motor Vehicle Accident	2.3		0	
B. Hospitalization Rate per 100,000				
All Admissions	1,669.9	1,383.9	447	-1.79
ACS Admissions	447.0	442.7	143	-0.05
Marker Condition Admissions	114.9	89.8	29	-0.59
ACS/Marker Condition Admissions	3.9	4.9		
Injury Admissions	241.6	161.0	52	-1.32
IV. Adolescents (Age 15-17)				
A. Mortality Rate per 100,000				
All Causes	10.4		0	
Internal Causes	32.2		0	
Injury Causes	17.0		0	
Total Unintentional	19.2		0	
Motor Vehicle Accident	17.0		0	
Total Intentional	12.6		0	
Suicide	9.6		0	
Firearm	9.1		0	
B. Hospitalization Rate per 100,000				
All Admissions	3385.0	1894.2	120	-2.93
ACS Admissions	323.4		19	
Marker Condition Admissions	185.0		9	
ACS/Marker Condition Admissions	1.7	2.1		
Injury Admissions	640.8		19	
Obstetric Admissions	1424.2		19	

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Birth-related Rates				
Birth Rate per 1,000 Females	14.4		19	
Low Birthweight Births	8.7%	5.6%	1	-0.48
Maternal Smoking	35.0%	42.1%	8	0.65
Late/No Prenatal Care Initiation	6.1%	5.6%	1	-0.09
Mother's Education < 12 years	92.0%	100.0%	18	1.25
Mother Unmarried	93.8%	100.0%	19	1.12
Medicaid Payment	53.3%	57.9%	11	0.40
V. Young Adult (Age 18-24)				
A. Mortality Rate per 100,000				
All Causes	53.8		5	
Internal Causes	10.7		0	
Injury Causes	42.5		5	
Total Unintentional	24.9		2	
Motor Vehicle Accident	21.0		2	
Total Intentional	16.1		3	
Suicide	14.4		3	
Firearm	10.3		0	
B. Hospitalization Rate per 100,000				
All Admissions	5,740.2	4464.5	617	-2.88
ACS Admissions	324.4	318.4	44	-0.06
Marker Condition Admissions	120.4	180.9	25	0.92
ACS/Marker Condition Admissions	2.7	1.76		
Injury Admissions	483.2	383.5	53	-0.76
Obstetric Admissions	6,129.9	4526.0	296	-2.42
C. Birth-related Rates				
Birth Rate per 1,000 Females	62.5	45.3	296	-2.58
Low Birthweight Births	5.7%	6.4%	19	0.53
Maternal Smoking	30.0%	29.4%	87	-0.24
Late/No Prenatal Care Initiation	3.0%	3.3%	9	0.24
Mother's Education < 12 years	24.0%	18.8%	55	-2.09
Mother Unmarried	51.3%	58.4%	173	2.45
Medicaid Payment	46.7%	56.6%	158	3.31
VI. Adults (Age 25-44)				
A. Mortality Rate per 100,000				
All Causes	113.6	120.5	64	0.21
Internal Causes	69.7	64.0	34	-0.22
Heart Disease	14.1		6	
Cancer	24.8		9	
Breast (Female)	7.9		3	
Cervix			0	
Colon	1.1		0	
Lung	3.4		2	
Prostate			0	
Diabetes-related Mortality	4.3		1	
Injury Causes	41.7	49.0	26	0.37
Total Unintentional	20.4		11	
Motor Vehicle Accident	11.0		5	
Total Intentional	17.7		11	
Suicide	15.2		10	
Firearm	9.5		6	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	56.3		13	
Cervix	12.3		4	
Colon	3.6		0	
Lung	5.3		2	
Prostate			0	
C. Hospitalization Rate per 100,000				
All Admissions	7,719.6	6477.7	3440	-4.80
ACS Admissions	409.6	393.6	209	-0.26
Marker Condition Admissions	137.1	165.7	88	0.80
ACS/Marker Condition Admissions	3.0	2.4		
Injury Admissions	577.9	536.7	285	-0.56
Obstetric Admissions	5,672.3	4936.4	1319	-2.33

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
D. Birth-related Rates				
Birth Rate per 1,000 Females	58.8	49.9	1332	-2.78
Low Birthweight Births	4.9%	5.9%	78	1.56
Maternal Smoking	13.0%	10.8%	144	-2.31
Late/No Prenatal Care Initiation	1.1%	0.8%	10	-0.97
Mother's Education < 12 years	4.1%	2.6%	34	-2.80
Mother Unmarried	10.5%	13.3%	177	3.33
Medicaid Payment	10.9%	13.3%	166	2.71
VII. Middle Age (Age 45-64)				
A. Mortality Rate per 100,000				
All Causes	589.5	547.6	193	-0.46
Internal Causes	547.9	507.9	179	-0.46
Heart Disease	148.6	105.0	37	-0.95
Cancer	245.8	263.9	93	0.31
Breast (Female)	47.9		12	
Cervix	5.8		1	
Colon	16.5		2	
Lung	78.0	76.6	27	-0.04
Prostate	7.5		2	
Chronic Obstructive Pulmonary Disease	22.8		7	
Diabetes-related Mortality	52.8		18	
Injury Causes	39.0		13	
Total Unintentional	19.9		4	
Motor Vehicle Accident	8.6		2	
Total Intentional	17.8		9	
Suicide	16.0		7	
Firearm	10.8		5	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	259.6	286	50	0.31
Cervix	16.5		3	
Colon	39.9		11	
Lung	99.2	122	43	0.61
Prostate	164.2	185	33	0.31
C. Hospitalization Rate per 100,000				
All Admissions	9,642.3	9717.7	3425	0.21
ACS Admissions	1,064.5	1098.0	387	0.27
Marker Condition Admissions	468.8	368.8	130	-1.23
ACS/Marker Condition Admissions	2.3	3.0		
Injury Admissions	758.8	788.8	278	0.29
VIII. Senior (Age 65-74)				
A. Mortality Rate per 100,000				
All Causes	2580.3	3148.5	301	1.57
Internal Causes	2523.4	3085.8	295	1.57
Heart Disease	749.2	784.5	75	0.18
Cancer	958.2	1255.2	120	1.33
Breast (Female)	127.4		12	
Cervix			0	
Colon	77.0		9	
Lung	311.2	387.0	37	0.60
Prostate	102.8		4	
Cerebrovascular Disease	124.3		15	
Chronic Obstructive Pulmonary Disease	171.8	219.7	21	0.50
Diabetes-related Mortality	296.4	272.0	26	-0.20
Injury Causes	53.3		6	
Total Unintentional	39.6		4	
Falls	11.8		1	
Motor Vehicle Accident	15.1		3	
Total Intentional	13.5		2	
Suicide	12.6		2	
Firearm	9.6		2	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	443.1	851.9	44	1.98
Cervix	11.5		1	
Colon	185.9	219.7	21	0.34
Lung	356.6	428.9	41	0.53
Prostate	919.6	1160.4	51	0.75

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Hospitalization Rate per 100,000				
All Admissions	23,993.5	30889.1	2953	7.06
ACS Admissions	3,877.2	5136.0	491	2.85
Marker Condition Admissions	1,323.3	1338.9	128	0.06
ACS/Marker Condition Admissions	2.9	3.8		
Injury Admissions	1,682.1	1966.5	188	0.97
IX. Elderly (Age 75 +)				
A. Mortality Rate per 100,000				
All Causes	8574.0	13958.9	1019	7.35
Internal Causes	8410.7	13726.0	1002	7.32
Heart Disease	3107.9	5397.3	394	5.04
Cancer	1563.9	2383.6	174	2.52
Breast (Female)	179.3		15	
Cervix			0	
Colon	169.8	274.0	20	0.97
Lung	354.9	493.2	36	0.89
Prostate	423.0		12	
Cerebrovascular Disease	814.5	1246.6	91	1.84
Chronic Obstructive Pulmonary Disease	489.0	849.3	62	1.97
Diabetes-related Mortality	764.8	1027.4	75	1.15
Injury Causes	155.1		14	
Total Unintentional	136.1		12	
Falls	59.5		5	
Motor Vehicle Accident	26.5		2	
Total Intentional	18.6		2	
Suicide	16.4		2	
Firearm	11.4		1	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	421.0	873.3	41	2.14
Cervix	13.5		1	
Colon	331.7	575.3	42	1.62
Lung	313.7	493.2	36	1.23
Prostate	991.7	1190.0	31	0.46
C. Hospitalization Rate per 100,000				
All Admissions	37,030.1	61397.3	4482	19.28
ACS Admissions	7,967.8	13547.9	989	7.87
Marker Condition Admissions	3,224.7	4972.6	363	3.78
ACS/Marker Condition Admissions	2.5	2.7		
Injury Admissions	3,731.4	7178.1	524	6.95

Rochester HSA

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
I. Socioeconomic Risk Indicators				
A. % Receiving Medicaid / Food Stamps (1997, 1998)				
Children (Age <19)	9.1%	14.7%	1,848	21.58
Adults (Age 19+)	2.1%	2.3%	746	2.98
B. Unemployment (1995)				
	4.0%	4.6%	1,048	4.61
C. % Deaths <12 Yrs. Education				
People (Age 25-44)	15.4%	22.2%	20	1.80
People (Age 45-64)	18.9%	26.3%	77	3.21
People (Age 65+)	28.8%	38.0%	479	7.18
D. % Births, Mother's Education <12 Yrs.				
Mothers (Age 18-24)	24.0%	26.8%	252	1.98
Mothers (Age 25+)	4.1%	5.9%	112	3.87
II. Infant Health (Age <1)				
Health Status, Behaviors, and Barriers				
Infant Mortality per 1,000 live births	5.3		13	
Low Birthweight Mortality	47.6		3	
Normal Birthweight Mortality	2.0		4	
Low Birthweight Births	5.2%	4.8%	144	-0.97
Maternal Smoking	17.6%	22.6%	673	7.10
Late/No Prenatal Care Initiation	1.7%	1.8%	52	0.49
Mother's Education < 12 years	10.9%	15.9%	473	8.69
Mother's Age < 20	7.3%	10.8%	323	7.32
Mother Unmarried	22.3%	30.9%	925	11.26
Medicaid Payment	20.7%	30.7%	889	13.25
III. Children (Age 1-14)				
A. Mortality Rate per 100,000				
All Causes	18.4		12	
Internal Causes	11.4		5	
Injury Causes	6.5		7	
Motor Vehicle Accident	2.3		3	
B. Hospitalization Rate per 100,000				
All Admissions	1,669.9	1,651.1	751	-0.14
ACS Admissions	447.0	395.7	180	-0.73
Marker Condition Admissions	114.9	114.3	52	-0.01
ACS/Marker Condition Admissions	3.9	3.5		
Injury Admissions	241.6	261.6	119	0.39
IV. Adolescents (Age 15-17)				
A. Mortality Rate per 100,000				
All Causes	43.1		2	
Internal Causes	10.4		0	
Injury Causes	32.2		2	
Total Unintentional	19.2		0	
Motor Vehicle Accident	17.0		0	
Total Intentional	12.6		2	
Suicide	9.6		0	
Firearm	9.1		1	
B. Hospitalization Rate per 100,000				
All Admissions	3385.0	3214.1	274	-0.39
ACS Admissions	323.4		19	
Marker Condition Admissions	185.0	305.0	26	1.15
ACS/Marker Condition Admissions	1.7	0.7		
Injury Admissions	640.8	621.7	53	-0.10
Obstetric Admissions	1424.2	2549.2	110	2.79

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
C. Birth-related Rates				
Birth Rate per 1,000 Females	14.4	27.3	118	3.18
Low Birthweight Births	8.7%	6.8%	8	-0.75
Maternal Smoking	35.0%	25.4%	30	-2.18
Late/No Prenatal Care Initiation	6.1%	4.3%	5	-0.82
Mother's Education < 12 years	92.0%	91.4%	106	-0.26
Mother Unmarried	93.8%	97.5%	115	1.65
Medicaid Payment	53.3%	64.0%	73	2.29
V. Young Adult (Age 18-24)				
A. Mortality Rate per 100,000				
All Causes	53.8		14	
Internal Causes	10.7		2	
Injury Causes	42.5		12	
Total Unintentional	24.9		8	
Motor Vehicle Accident	21.0		8	
Total Intentional	16.1		4	
Suicide	14.4		4	
Firearm	10.3		2	
B. Hospitalization Rate per 100,000				
All Admissions	5,740.2	7010.9	1446	3.51
ACS Admissions	324.4	349.1	72	0.28
Marker Condition Admissions	120.4	121.2	25	0.02
ACS/Marker Condition Admissions	2.7	2.9		
Injury Admissions	483.2	480	99	-0.03
Obstetric Admissions	6,129.9	8769.6	923	5.05
C. Birth-related Rates				
Birth Rate per 1,000 Females	62.5	90.1	948	5.22
Low Birthweight Births	5.7%	4.3%	41	-1.83
Maternal Smoking	30.0%	30.5%	288	0.29
Late/No Prenatal Care Initiation	3.0%	2.3%	21	-1.37
Mother's Education < 12 years	24.0%	26.8%	252	1.98
Mother Unmarried	51.3%	53.8%	510	1.52
Medicaid Payment	46.7%	52.2%	478	3.34
VI. Adults (Age 25-44)				
A. Mortality Rate per 100,000				
All Causes	113.6	121.7	91	0.30
Internal Causes	69.7	76.3	57	0.31
Heart Disease	14.1		10	
Cancer	24.8	29.4	22	0.36
Breast (Female)	7.9		4	
Cervix			1	
Colon	1.1		1	
Lung	3.4		3	
Prostate			1	
Diabetes-related Mortality	4.3		4	
Injury Causes	41.7	44.1	33	0.15
Total Unintentional	20.4	29.4	22	0.77
Motor Vehicle Accident	11.0		11	
Total Intentional	17.7		11	
Suicide	15.2		8	
Firearm	9.5		5	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	56.3	63.4	24	0.26
Cervix	12.3		2	
Colon	5.3		5	
Lung	3.6		4	
Prostate			0	
C. Hospitalization Rate per 100,000				
All Admissions	7,719.6	6432.1	4808	-5.90
ACS Admissions	409.6	315.7	236	-1.80
Marker Condition Admissions	137.1	101.7	76	-1.17
ACS/Marker Condition Admissions	3.0	3.1		
Injury Admissions	577.9	512.4	383	-1.06
Obstetric Admissions	5,672.3	4912.8	1860	-2.86

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
D. Birth-related Rates				
Birth Rate per 1,000 Females	58.8	50.7	1921	-2.98
Low Birthweight Births	4.9%	4.9%	94	-0.07
Maternal Smoking	13.0%	18.5%	355	7.27
Late/No Prenatal Care Initiation	1.1%	1.3%	25	1.13
Mother's Education < 12 years	4.1%	5.8%	111	3.76
Mother Unmarried	10.5%	15.4%	296	7.03
Medicaid Payment	10.9%	18.0%	336	9.81
VII. Middle Age (Age 45-64)				
A. Mortality Rate per 100,000				
All Causes	589.5	680.9	301	1.12
Internal Causes	547.9	626.6	277	1.00
Heart Disease	148.6	151.6	67	0.07
Cancer	245.8	296.3	131	0.96
Breast (Female)	47.9		7	
Cervix	5.8		4	
Colon	16.5		5	
Lung	78.0	90.5	40	0.42
Prostate	7.5		2	
Chronic Obstructive Pulmonary Disease	22.8		11	
Diabetes-related Mortality	52.8	63.3	28	0.43
Injury Causes	39.0	47.5	21	0.40
Total Unintentional	19.9		12	
Motor Vehicle Accident	8.6		5	
Total Intentional	17.8		9	
Suicide	16.0		9	
Firearm	10.8		6	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	259.6	294.4	66	0.46
Cervix	16.5		11	
Colon	39.9		19	
Lung	99.2	122.2	54	0.68
Prostate	164.2	174.4	38	0.17
C. Hospitalization Rate per 100,000				
All Admissions	9,642.3	9252.3	4090	-1.24
ACS Admissions	1,064.5	981.8	434	-0.76
Marker Condition Admissions	468.8	486.4	215	0.24
ACS/Marker Condition Admissions	2.3	2.0		
Injury Admissions	758.8	753.3	333	-0.06
VIII. Senior (Age 65-74)				
A. Mortality Rate per 100,000				
All Causes	2580.3	2661.1	380	0.27
Internal Causes	2523.4	2619.0	374	0.33
Heart Disease	749.2	798.3	114	0.30
Cancer	958.2	994.4	142	0.20
Breast (Female)	127.4		6	
Cervix			0	
Colon	77.0		11	
Lung	311.2	350.1	50	0.37
Prostate	102.8		4	
Cerebrovascular Disease	124.3	203.1	29	1.20
Chronic Obstructive Pulmonary Disease	171.8	196.1	28	0.31
Diabetes-related Mortality	296.4	413.2	59	1.15
Injury Causes	53.3		6	
Total Unintentional	39.6		6	
Falls	11.8		1	
Motor Vehicle Accident	15.1		0	
Total Intentional	13.5		0	
Suicide	12.6		0	
Firearm	9.6		0	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	443.1	479.5	38	0.22
Cervix	11.5		2	
Colon	185.9	301.1	43	1.43
Lung	356.6	441.2	63	0.76
Prostate	919.6	1133.9	72	0.80

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Hospitalization Rate per 100,000				
All Admissions	23,993.5	22906.2	3271	-1.36
ACS Admissions	3,877.2	3543.4	506	-0.92
Marker Condition Admissions	1,323.3	1211.5	173	-0.52
ACS/Marker Condition Admissions	2.9	2.9		
Injury Admissions	1,682.1	1561.6	223	-0.50
IX. Elderly (Age 75 +)				
A. Mortality Rate per 100,000				
All Causes	8574.0	8313.3	966	-0.45
Internal Causes	8410.7	8132.5	945	-0.48
Heart Disease	3107.9	2865.7	333	-0.67
Cancer	1563.9	1712.6	199	0.58
Breast (Female)	179.3		14	
Cervix			0	
Colon	169.8	266.8	31	1.14
Lung	354.9	473.3	55	0.96
Prostate	423.0		18	
Cerebrovascular Disease	814.5	826.2	96	0.06
Chronic Obstructive Pulmonary Disease	489.0	438.9	51	-0.35
Diabetes-related Mortality	764.8	1032.7	120	1.48
Injury Causes	155.1	172.1	20	0.21
Total Unintentional	136.1		19	
Falls	59.5		11	
Motor Vehicle Accident	26.5		2	
Total Intentional	18.6		1	
Suicide	16.4		1	
Firearm	11.4		1	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	421.0	435.9	34	0.09
Cervix	13.5		1	
Colon	331.7	370.1	43	0.32
Lung	313.7	430.3	50	1.01
Prostate	991.7	1256.5	48	0.74
C. Hospitalization Rate per 100,000				
All Admissions	37,030.1	33425.1	3884	-3.60
ACS Admissions	7,967.8	6729.8	782	-2.20
Marker Condition Admissions	3,224.7	2943.2	342	-0.77
ACS/Marker Condition Admissions	2.5	2.3		
Injury Admissions	3,731.4	3399.3	395	-0.84

Salem HSA

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
I. Socioeconomic Risk Indicators				
A. % Receiving Medicaid / Food Stamps (1997, 1998)				
Children (Age <19)	9.1%	5.3%	944	-17.95
Adults (Age 19+)	2.1%	1.0%	453	-15.38
B. Unemployment (1995)				
	4.0%	6.7%	2,439	26.23
C. % Deaths <12 Yrs. Education				
People (Age 25-44)	15.4%	17.6%	19	0.64
People (Age 45-64)	18.9%	17.7%	71	-0.66
People (Age 65+)	28.8%	35.6%	520	5.71
D. % Births, Mother's Education <12 Yrs.				
Mothers (Age 18-24)	24.0%	21.1%	152	-1.83
Mothers (Age 25+)	4.1%	3.4%	107	-2.01
II. Infant Health (Age <1)				
Health Status, Behaviors, and Barriers				
Infant Mortality per 1,000 live births	5.3		12	
Low Birthweight Mortality	47.6		8	
Normal Birthweight Mortality	2.0		6	
Low Birthweight Births	5.2%	5.1%	203	-0.24
Maternal Smoking	17.6%	14.7%	580	-4.85
Late/No Prenatal Care Initiation	1.7%	1.4%	53	-1.00
Mother's Education < 12 years	10.9%	8.0%	316	-5.84
Mother's Age < 20	7.3%	5.2%	208	-5.00
Mother Unmarried	22.3%	17.2%	681	-7.80
Medicaid Payment	20.7%	11.7%	398	-13.06
III. Children (Age 1-14)				
A. Mortality Rate per 100,000				
All Causes	18.4		10	
Internal Causes	11.4		7	
Injury Causes	6.5		3	
Motor Vehicle Accident	2.3		1	
B. Hospitalization Rate per 100,000				
All Admissions	1,669.9	1,418.0	921	-2.24
ACS Admissions	447.0	445.0	289	-0.03
Marker Condition Admissions	114.9	75.4	49	-1.33
ACS/Marker Condition Admissions	3.9	5.9		
Injury Admissions	241.6	206.3	134	-0.82
IV. Adolescents (Age 15-17)				
A. Mortality Rate per 100,000				
All Causes	43.1		4	
Internal Causes	10.4		0	
Injury Causes	32.2		4	
Total Unintentional	19.2		2	
Motor Vehicle Accident	17.0		2	
Total Intentional	12.6		2	
Suicide	9.6		1	
Firearm	9.1		1	
B. Hospitalization Rate per 100,000				
All Admissions	3385.0	2701.8	338	-1.89
ACS Admissions	323.4	295.8	37	-0.24
Marker Condition Admissions	185.0		13	
ACS/Marker Condition Admissions	1.7	2.8		
Injury Admissions	640.8	559.6	70	-0.51
Obstetric Admissions	1424.2	940.0	58	-1.44

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
C. Birth-related Rates				
Birth Rate per 1,000 Females	14.4	9.7	60	-1.39
Low Birthweight Births	8.7%	6.7%	4	-0.57
Maternal Smoking	35.0%	30.0%	18	-0.81
Late/No Prenatal Care Initiation	6.1%	7.0%	4	0.29
Mother's Education < 12 years	92.0%	95.0%	57	0.85
Mother Unmarried	93.8%	93.3%	56	-0.15
Medicaid Payment	53.3%	43.1%	22	-1.46
V. Young Adult (Age 18-24)				
A. Mortality Rate per 100,000				
All Causes	53.8		16	
Internal Causes	10.7		2	
Injury Causes	42.5		14	
Total Unintentional	24.9		8	
Motor Vehicle Accident	21.0		7	
Total Intentional	16.1		6	
Suicide	14.4		5	
Firearm	10.3		3	
B. Hospitalization Rate per 100,000				
All Admissions	5,740.2	5462.7	1526	-0.89
ACS Admissions	324.4	386.6	108	0.82
Marker Condition Admissions	120.4	132.5	37	0.26
ACS/Marker Condition Admissions	2.7	2.9		
Injury Admissions	483.2	579.9	162	1.04
Obstetric Admissions	6,129.9	5224.9	697	-1.95
C. Birth-related Rates				
Birth Rate per 1,000 Females	62.5	54.5	727	-1.71
Low Birthweight Births	5.7%	5.8%	42	0.09
Maternal Smoking	30.0%	25.0%	182	-2.95
Late/No Prenatal Care Initiation	3.0%	3.5%	24	0.68
Mother's Education < 12 years	24.0%	21.1%	152	-1.83
Mother Unmarried	51.3%	51.4%	374	0.06
Medicaid Payment	46.7%	34.4%	225	-6.35
VI. Adults (Age 25-44)				
A. Mortality Rate per 100,000				
All Causes	113.6	104.7	108	-0.38
Internal Causes	69.7	63.0	65	-0.36
Heart Disease	14.1		16	
Cancer	24.8	20.4	21	-0.41
Breast (Female)	7.9		2	
Cervix			1	
Colon	1.1		2	
Lung	3.4		3	
Prostate			0	
Diabetes-related Mortality	4.3		3	
Injury Causes	41.7	41.7	43	0.00
Total Unintentional	20.4		15	
Motor Vehicle Accident	11.0		12	
Total Intentional	17.7		18	
Suicide	15.2		17	
Firearm	9.5		9	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	56.3	50.1	26	-0.26
Cervix	12.3		11	
Colon	3.6		4	
Lung	5.3		7	
Prostate			1	
C. Hospitalization Rate per 100,000				
All Admissions	7,719.6	7118.3	7344	-3.24
ACS Admissions	409.6	409.0	422	-0.01
Marker Condition Admissions	137.1	110.5	114	-1.03
ACS/Marker Condition Admissions	3.0	3.7		
Injury Admissions	577.9	524.4	541	-1.01
Obstetric Admissions	5,672.3	5672.4	2942	0.00

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
D. Birth-related Rates				
Birth Rate per 1,000 Females	58.8	61.2	3173	1.03
Low Birthweight Births	4.9%	5.0%	157	0.07
Maternal Smoking	13.0%	12.0%	379	-1.62
Late/No Prenatal Care Initiation	1.1%	0.9%	25	-1.08
Mother's Education < 12 years	4.1%	3.4%	107	-2.00
Mother Unmarried	10.5%	7.9%	250	-4.80
Medicaid Payment	10.9%	5.6%	151	-8.92
VII. Middle Age (Age 45-64)				
A. Mortality Rate per 100,000				
All Causes	589.5	621.0	407	0.47
Internal Causes	547.9	576.7	378	0.45
Heart Disease	148.6	163.3	107	0.44
Cancer	245.8	265.5	174	0.46
Breast (Female)	47.9		17	
Cervix	5.8		1	
Colon	16.5		14	
Lung	78.0	70.2	46	-0.32
Prostate	7.5		3	
Chronic Obstructive Pulmonary Disease	22.8		12	
Diabetes-related Mortality	52.8	61.0	40	0.41
Injury Causes	39.0	44.2	29	0.30
Total Unintentional	19.9		18	
Motor Vehicle Accident	8.6		7	
Total Intentional	17.8		11	
Suicide	16.0		11	
Firearm	10.8		4	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	259.6	209.0	68	-0.80
Cervix	16.5		4	
Colon	39.9	64.1	42	1.38
Lung	99.2	129.7	85	1.11
Prostate	164.2	206.0	68	0.84
C. Hospitalization Rate per 100,000				
All Admissions	9,642.3	10459.3	6855	3.17
ACS Admissions	1,064.5	1208.4	792	1.61
Marker Condition Admissions	468.8	527.9	346	0.99
ACS/Marker Condition Admissions	2.3	2.3		
Injury Admissions	758.8	772.0	506	0.18
VIII. Senior (Age 65-74)				
A. Mortality Rate per 100,000				
All Causes	2580.3	3029.7	484	1.60
Internal Causes	2523.4	2973.4	475	1.62
Heart Disease	749.2	939.0	150	1.24
Cancer	958.2	1014.1	162	0.32
Breast (Female)	127.4		14	
Cervix			0	
Colon	77.0		15	
Lung	311.2	375.6	60	0.65
Prostate	102.8		3	
Cerebrovascular Disease	124.3	175.3	28	0.82
Chronic Obstructive Pulmonary Disease	171.8		18	
Diabetes-related Mortality	296.4	431.9	69	1.41
Injury Causes	53.3		9	
Total Unintentional	39.6		6	
Falls	11.8		1	
Motor Vehicle Accident	15.1		4	
Total Intentional	13.5		3	
Suicide	12.6		3	
Firearm	9.6		1	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	443.1	519.0	45	0.48
Cervix	11.5		2	
Colon	185.9	250.4	40	0.85
Lung	356.6	438.2	70	0.77
Prostate	919.6	1136.2	83	0.87

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Hospitalization Rate per 100,000				
All Admissions	23,993.5	30209.7	4826	8.23
ACS Admissions	3,877.2	5477.3	875	4.68
Marker Condition Admissions	1,323.3	1458.5	233	0.67
ACS/Marker Condition Admissions	2.9	3.8		
Injury Admissions	1,682.1	1865.4	298	0.81
IX. Elderly (Age 75 +)				
A. Mortality Rate per 100,000				
All Causes	8574.0	7991.9	991	-1.04
Internal Causes	8410.7	7895.2	979	-0.93
Heart Disease	3107.9	2927.4	363	-0.52
Cancer	1563.9	1830.6	227	1.07
Breast (Female)	179.3		14	
Cervix			0	
Colon	169.8	266.1	33	1.17
Lung	354.9	306.5	38	-0.41
Prostate	423.0	621.4	27	0.90
Cerebrovascular Disease	814.5	580.6	72	-1.30
Chronic Obstructive Pulmonary Disease	489.0	411.3	51	-0.55
Diabetes-related Mortality	764.8	830.6	103	0.38
Injury Causes	155.1		12	
Total Unintentional	136.1		12	
Falls	59.5		9	
Motor Vehicle Accident	26.5		1	
Total Intentional	18.6		0	
Suicide	16.4		0	
Firearm	11.4		0	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	421.0	409.9	33	-0.07
Cervix	13.5		1	
Colon	313.7	258.1	32	-0.50
Lung	331.7	371.0	46	0.34
Prostate	991.7	1035.7	45	0.13
C. Hospitalization Rate per 100,000				
All Admissions	37,030.1	39822.6	4938	2.88
ACS Admissions	7,967.8	9895.2	1227	3.54
Marker Condition Admissions	3,224.7	2871.0	356	-1.00
ACS/Marker Condition Admissions	2.5	3.4		
Injury Admissions	3,731.4	2822.6	350	-2.39

Wolfeboro HSA

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
I. Socioeconomic Risk Indicators				
A. % Receiving Medicaid / Food Stamps (1997, 1998)				
Children (Age <19)	9.1%	14.5%	741	13.37
Adults (Age 19+)	2.1%	2.7%	381	4.73
B. Unemployment (1995)				
	4.0%	3.9%	386	-0.51
C. % Deaths <12 Yrs. Education				
People (Age 25-44)	15.4%	8.6%	3	-1.12
People (Age 45-64)	18.9%	19.9%	30	0.29
People (Age 65+)	28.8%	23.6%	218	-3.51
D. % Births, Mother's Education <12 Yrs.				
Mothers (Age 18-24)	24.0%	26.0%	75	0.82
Mothers (Age 25+)	4.1%	4.7%	34	0.80
II. Infant Health (Age <1)				
Health Status, Behaviors, and Barriers				
Infant Mortality per 1,000 live births	5.3		6	
Low Birthweight Mortality	47.6		2	
Normal Birthweight Mortality	2.0		4	
Low Birthweight Births	5.2%	4.9%	51	-0.52
Maternal Smoking	17.6%	22.8%	239	4.43
Late/No Prenatal Care Initiation	1.7%	1.1%	11	-1.48
Mother's Education < 12 years	10.9%	13.2%	138	2.33
Mother's Age < 20	7.3%	9.4%	99	2.60
Mother Unmarried	22.3%	24.2%	255	1.48
Medicaid Payment	20.7%	33.2%	337	9.79
III. Children (Age 1-14)				
A. Mortality Rate per 100,000				
All Causes	18.4		4	
Internal Causes	11.4		1	
Injury Causes	6.5		2	
Motor Vehicle Accident	2.3		2	
B. Hospitalization Rate per 100,000				
All Admissions	1,669.9	2,108.7	390	2.08
ACS Admissions	447.0	502.8	93	0.51
Marker Condition Admissions	114.9	216.3	40	1.82
ACS/Marker Condition Admissions	3.9	2.3		
Injury Admissions	241.6	335.2	62	1.16
IV. Adolescents (Age 15-17)				
A. Mortality Rate per 100,000				
All Causes	43.1		3	
Internal Causes	10.4		3	
Injury Causes	32.2		0	
Total Unintentional	19.2		0	
Motor Vehicle Accident	17.0		0	
Total Intentional	12.6		0	
Suicide	9.6		0	
Firearm	9.1		0	
B. Hospitalization Rate per 100,000				
All Admissions	3385.0	5113.2	192	2.62
ACS Admissions	323.4	745.7	28	2.04
Marker Condition Admissions	185.0		12	
ACS/Marker Condition Admissions	1.7	2.3		
Injury Admissions	640.8	1198.4	45	1.92
Obstetric Admissions	1424.2	1989.0	36	0.91

	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Birth-related Rates				
Birth Rate per 1,000 Females	14.4	19.3	35	0.78
Low Birthweight Births	8.7%	5.7%	2	-0.63
Maternal Smoking	35.0%	22.9%	8	-1.51
Late/No Prenatal Care Initiation	6.1%	5.7%	2	-0.09
Mother's Education < 12 years	92.0%	85.3%	29	-1.45
Mother Unmarried	93.8%	91.4%	32	-0.58
Medicaid Payment	53.3%	88.6%	31	4.18
V. Young Adult (Age 18-24)				
A. Mortality Rate per 100,000				
All Causes	53.8		5	
Internal Causes	10.7		1	
Injury Causes	42.5		4	
Total Unintentional	24.9		3	
Motor Vehicle Accident	21.0		3	
Total Intentional	16.1		1	
Suicide	14.4		1	
Firearm	10.3		1	
B. Hospitalization Rate per 100,000				
All Admissions	5,740.2	8987.5	648	5.30
ACS Admissions	324.4	513.2	37	1.26
Marker Condition Admissions	120.4		7	
ACS/Marker Condition Admissions	2.7	5.3		
Injury Admissions	483.2	1151.2	83	3.66
Obstetric Admissions	6,129.9	8302.4	291	2.40
C. Birth-related Rates				
Birth Rate per 1,000 Females	62.5	82.5	289	2.18
Low Birthweight Births	5.7%	5.9%	17	0.13
Maternal Smoking	30.0%	32.6%	94	0.96
Late/No Prenatal Care Initiation	3.0%	2.5%	7	-0.50
Mother's Education < 12 years	24.0%	26.0%	75	0.82
Mother Unmarried	51.3%	46.5%	134	-1.63
Medicaid Payment	46.7%	56.7%	156	3.32
VI. Adults (Age 25-44)				
A. Mortality Rate per 100,000				
All Causes	113.6	125.4	35	0.26
Internal Causes	69.7	75.3	21	0.16
Heart Disease	14.1		3	
Cancer	24.8		9	
Breast (Female)	7.9		1	
Cervix			0	
Colon	1.1		1	
Lung	3.4		0	
Prostate			0	
Diabetes-related Mortality	4.3		1	
Injury Causes	41.7		14	
Total Unintentional	20.4		5	
Motor Vehicle Accident	11.0		3	
Total Intentional	17.7		9	
Suicide	15.2		8	
Firearm	9.5		2	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	56.3		9	
Cervix	12.3		0	
Colon	3.6		2	
Lung	5.3		1	
Prostate			0	
C. Hospitalization Rate per 100,000				
All Admissions	7,719.6	9587.8	2675	5.23
ACS Admissions	409.6	630.8	176	2.59
Marker Condition Admissions	137.1	197.1	55	1.21
ACS/Marker Condition Admissions	3.0	3.2		
Injury Admissions	577.9	978.5	273	3.95
Obstetric Admissions	5,672.3	5099.5	730	-1.32

	1993-1997			Test Statistic
	State Rate	HSA Rate	Number	
D. Birth-related Rates				
Birth Rate per 1,000 Females	58.8	50.7	726	-1.84
Low Birthweight Births	4.9%	4.4%	32	-0.64
Maternal Smoking	13.0%	19.0%	137	4.83
Late/No Prenatal Care Initiation	1.1%	0.3%	2	-2.04
Mother's Education < 12 years	4.1%	4.7%	34	0.82
Mother Unmarried	10.5%	12.3%	89	1.55
Medicaid Payment	10.9%	21.3%	150	8.83
VII. Middle Age (Age 45-64)				
A. Mortality Rate per 100,000				
All Causes	589.5	699.2	152	0.94
Internal Causes	547.9	662.4	144	1.02
Heart Disease	148.6	142.6	31	-0.10
Cancer	245.8	349.6	76	1.38
Breast (Female)	47.9		7	
Cervix	5.8		0	
Colon	16.5		9	
Lung	78.0		18	
Prostate	7.5		2	
Chronic Obstructive Pulmonary Disease	22.8		4	
Diabetes-related Mortality	52.8		16	
Injury Causes	39.0		8	
Total Unintentional	19.9		4	
Motor Vehicle Accident	8.6		0	
Total Intentional	17.8		4	
Suicide	16.0		4	
Firearm	10.8		3	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	259.6	274.7	30	0.14
Cervix	16.5		1	
Colon	39.9		15	
Lung	99.2	110.4	24	0.23
Prostate	164.2	305.0	33	1.62
C. Hospitalization Rate per 100,000				
All Admissions	9,642.3	12267.7	2667	5.87
ACS Admissions	1,064.5	1623.7	353	3.59
Marker Condition Admissions	468.8	538.2	117	0.67
ACS/Marker Condition Admissions	2.3	3.0		
Injury Admissions	758.8	975.2	212	1.64
VIII. Senior (Age 65-74)				
A. Mortality Rate per 100,000				
All Causes	2580.3	2804.1	249	0.59
Internal Causes	2523.4	2747.7	244	0.60
Heart Disease	749.2	732.0	65	-0.08
Cancer	958.2	1295.0	115	1.46
Breast (Female)	127.4		5	
Cervix			1	
Colon	77.0		12	
Lung	311.2	461.7	41	1.14
Prostate	102.8		5	
Cerebrovascular Disease	124.3		9	
Chronic Obstructive Pulmonary Disease	171.8		15	
Diabetes-related Mortality	296.4	225.2	20	-0.55
Injury Causes	53.3		5	
Total Unintentional	39.6		3	
Falls	11.8		2	
Motor Vehicle Accident	15.1		1	
Total Intentional	13.5		2	
Suicide	12.6		2	
Firearm	9.6		2	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	443.1	624.3	30	0.85
Cervix	11.5		0	
Colon	185.9	225.2	20	0.39
Lung	356.6	405.4	36	0.35
Prostate	919.6	1351.4	55	1.29

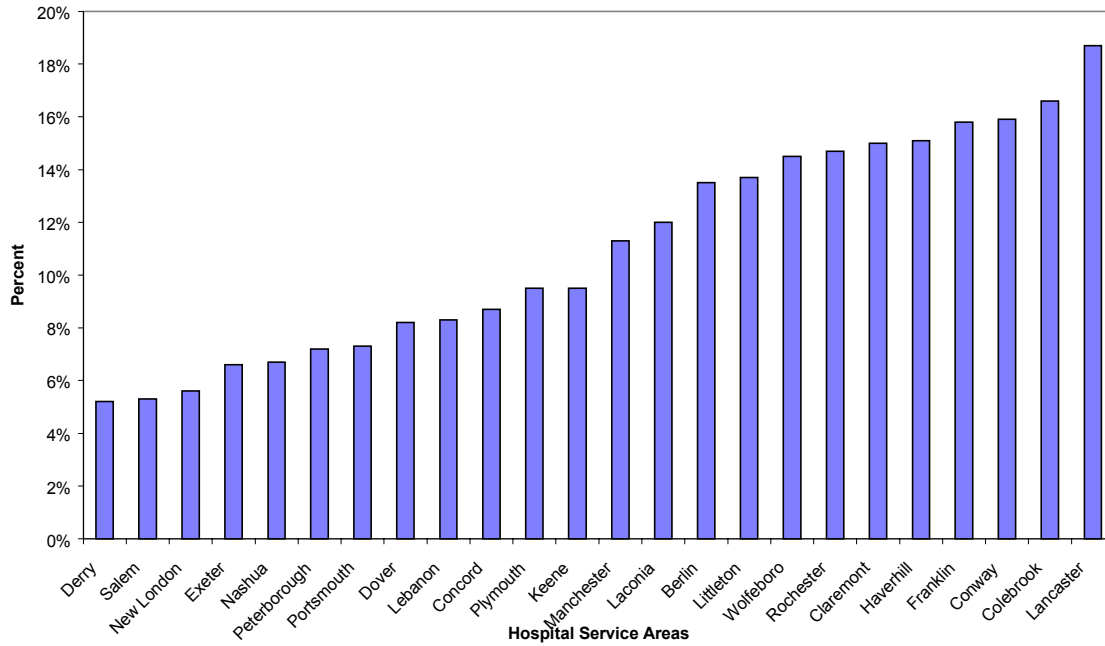
	1993-1997			
	State Rate	HSA Rate	Number	Test Statistic
C. Hospitalization Rate per 100,000				
All Admissions	23,993.5	30011.3	2665	5.94
ACS Admissions	3,877.2	4662.2	414	1.71
Marker Condition Admissions	1,323.3	1486.5	132	0.60
ACS/Marker Condition Admissions	2.9	3.1		
Injury Admissions	1,682.1	2139.6	190	1.50
IX. Elderly (Age 75 +)				
A. Mortality Rate per 100,000				
All Causes	8574.0	8914.9	686	0.48
Internal Causes	8410.7	8707.0	670	0.42
Heart Disease	3107.9	3131.9	241	0.05
Cancer	1563.9	1975.3	152	1.30
Breast (Female)	179.3		9	
Cervix			0	
Colon	169.8		15	
Lung	354.9	389.9	30	0.23
Prostate	423.0		17	
Cerebrovascular Disease	814.5	675.8	52	-0.61
Chronic Obstructive Pulmonary Disease	489.0	350.9	27	-0.78
Diabetes-related Mortality	764.8	532.8	41	-1.04
Injury Causes	155.1		16	
Total Unintentional	136.1		15	
Falls	59.5		7	
Motor Vehicle Accident	26.5		2	
Total Intentional	18.6		1	
Suicide	16.4		1	
Firearm	11.4		0	
B. Cancer Incidence Rate per 100,000				
Breast (Female)	421.0		14	
Cervix	13.5		1	
Colon	331.7	337.9	26	0.04
Lung	313.7	259.9	20	-0.38
Prostate	991.7	900.0	27	-0.23
C. Hospitalization Rate per 100,000				
All Admissions	37,030.1	45938.9	3535	7.24
ACS Admissions	7,967.8	9408.7	724	2.09
Marker Condition Admissions	3,224.7	3859.6	297	1.41
ACS/Marker Condition Admissions	2.5	2.4		
Injury Admissions	3,731.4	4678.4	360	1.96

Graphs for Hospital Service Area Analyses (1993-1997)

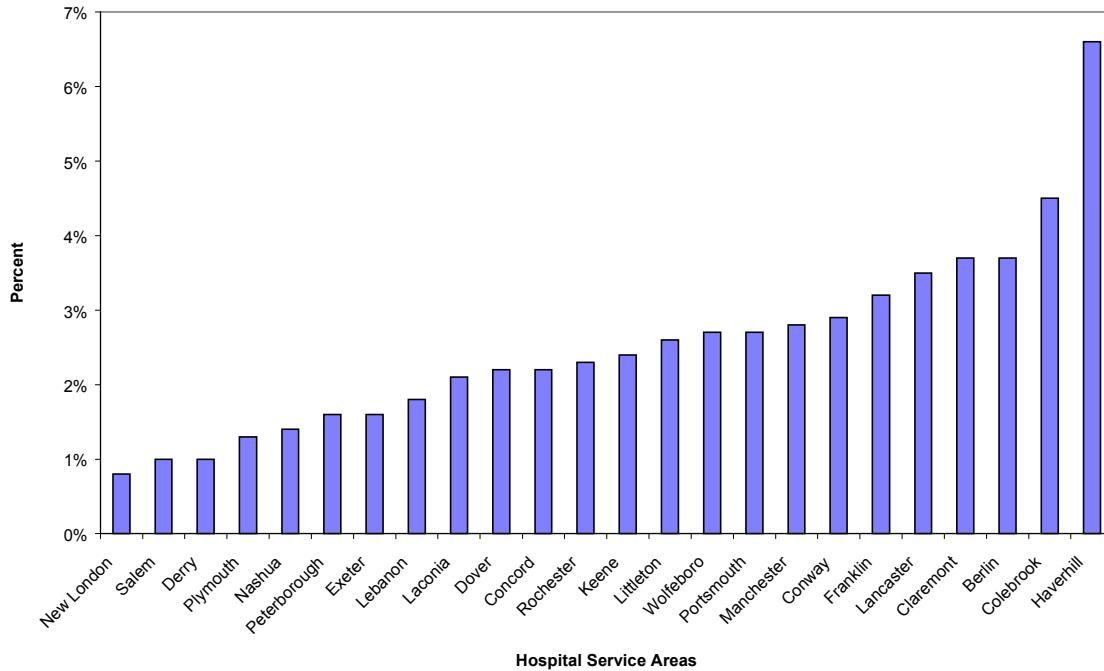
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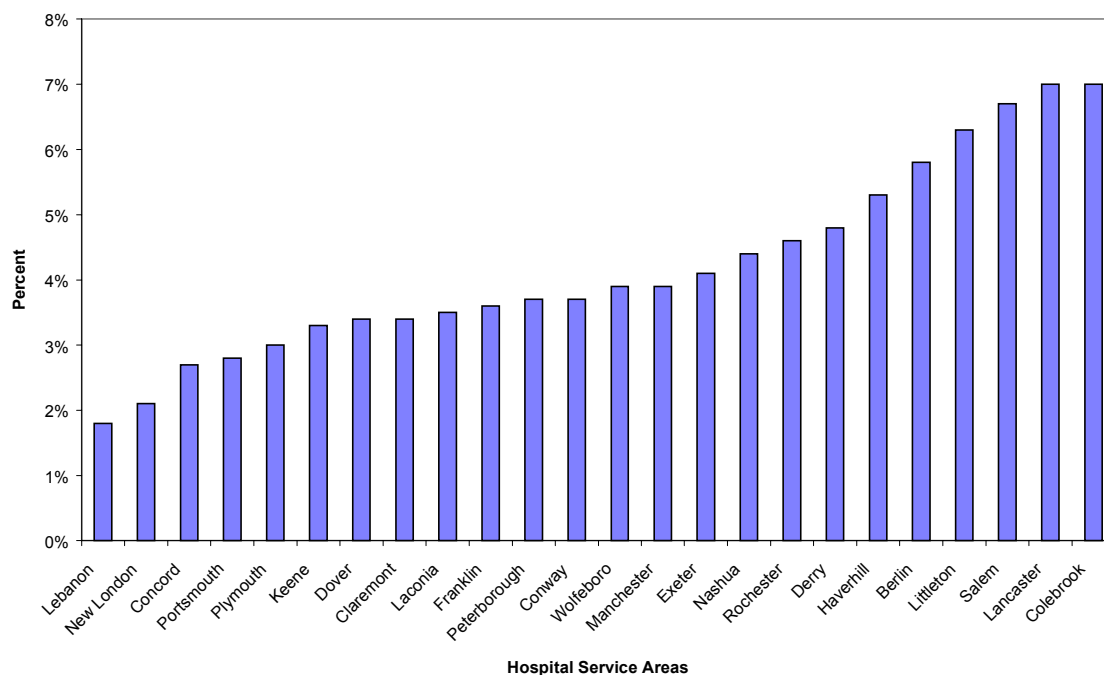
Children (Age <19) Receiving Medicaid or Food Stamps (1997, 1998)



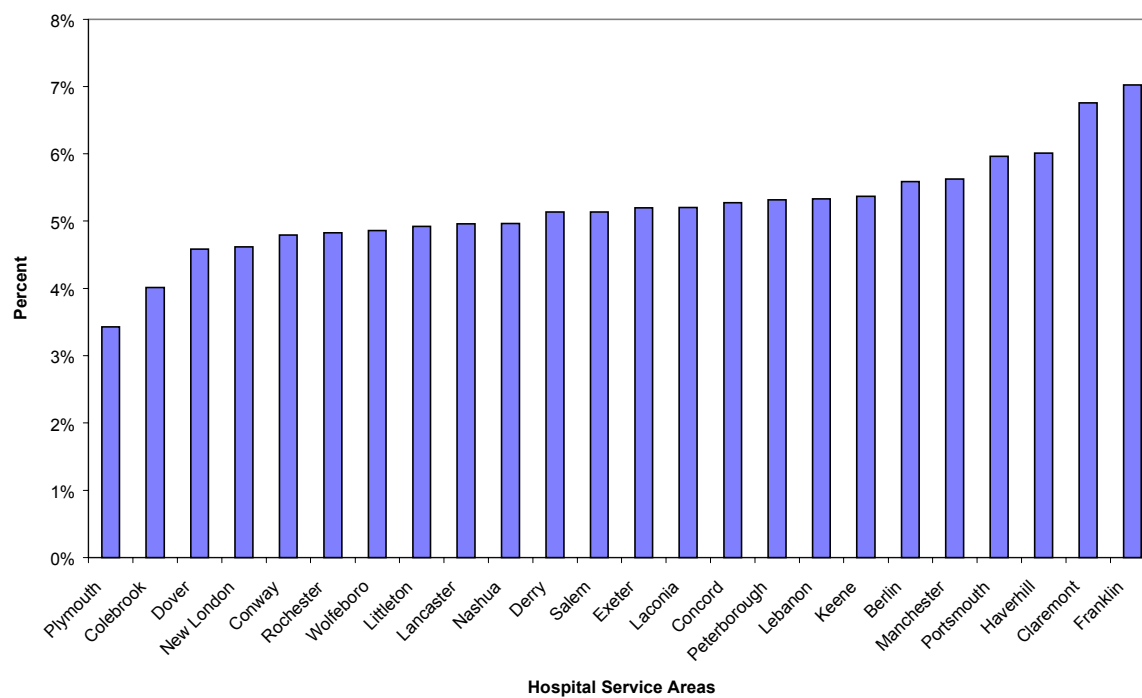
Adults (Age 19+) Receiving Medicaid or Food Stamps (1997, 1998)



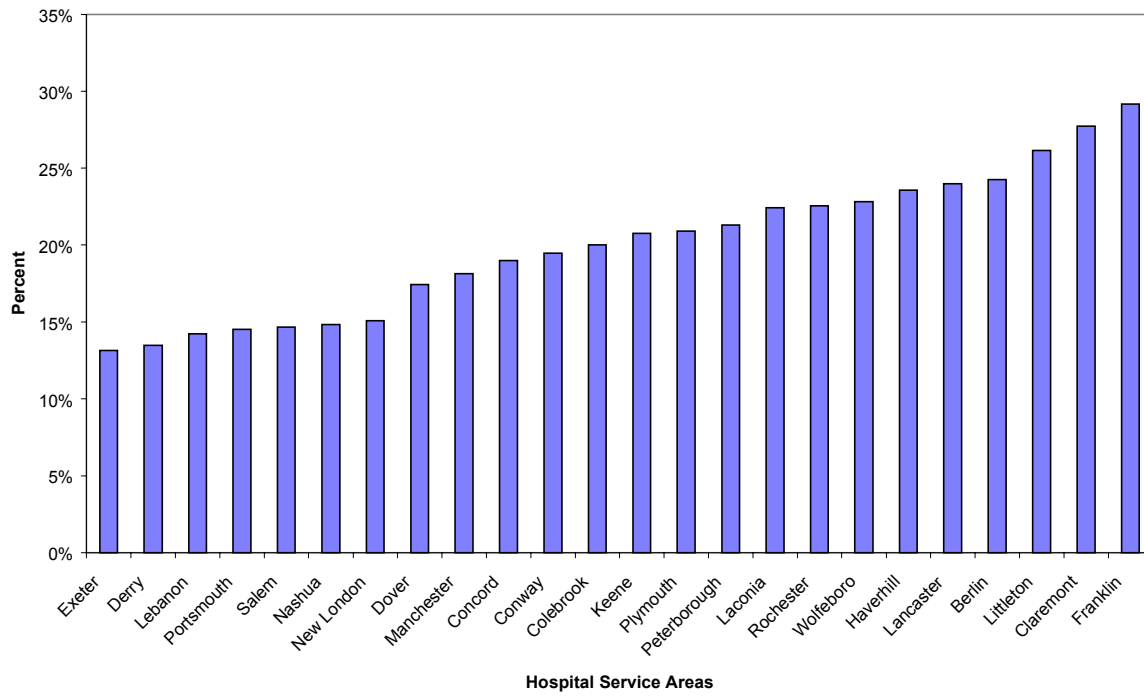
Unemployment Rate For All Health Service Areas in New Hampshire (1995)



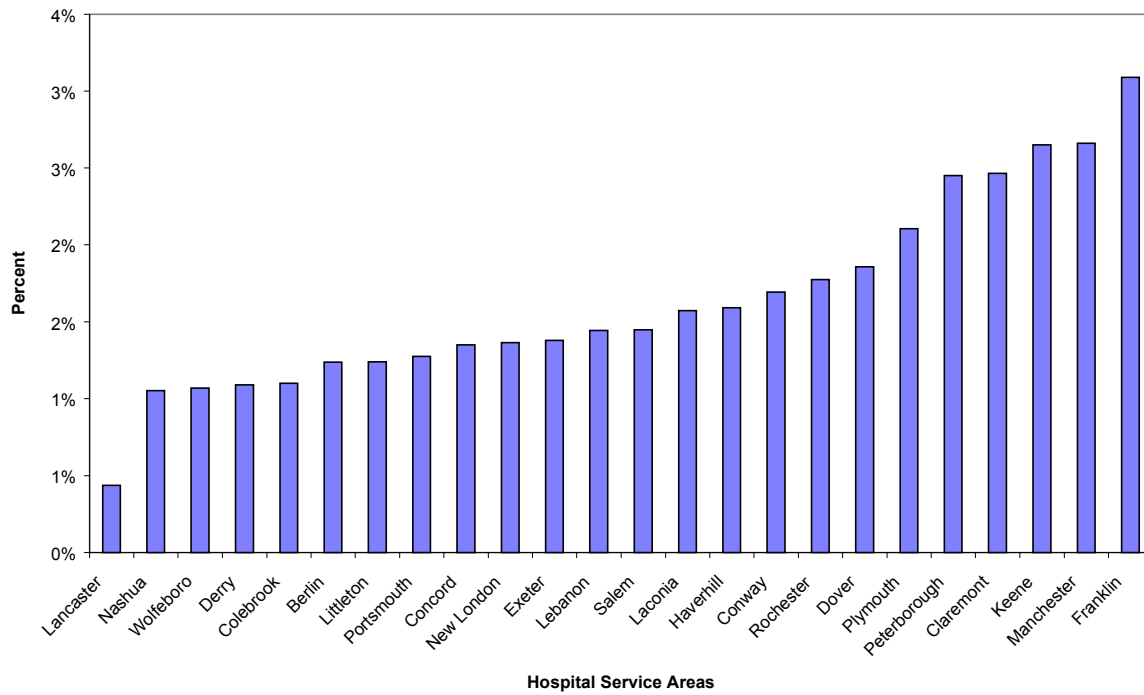
Low Birthweight Births among Infants (Age <1)



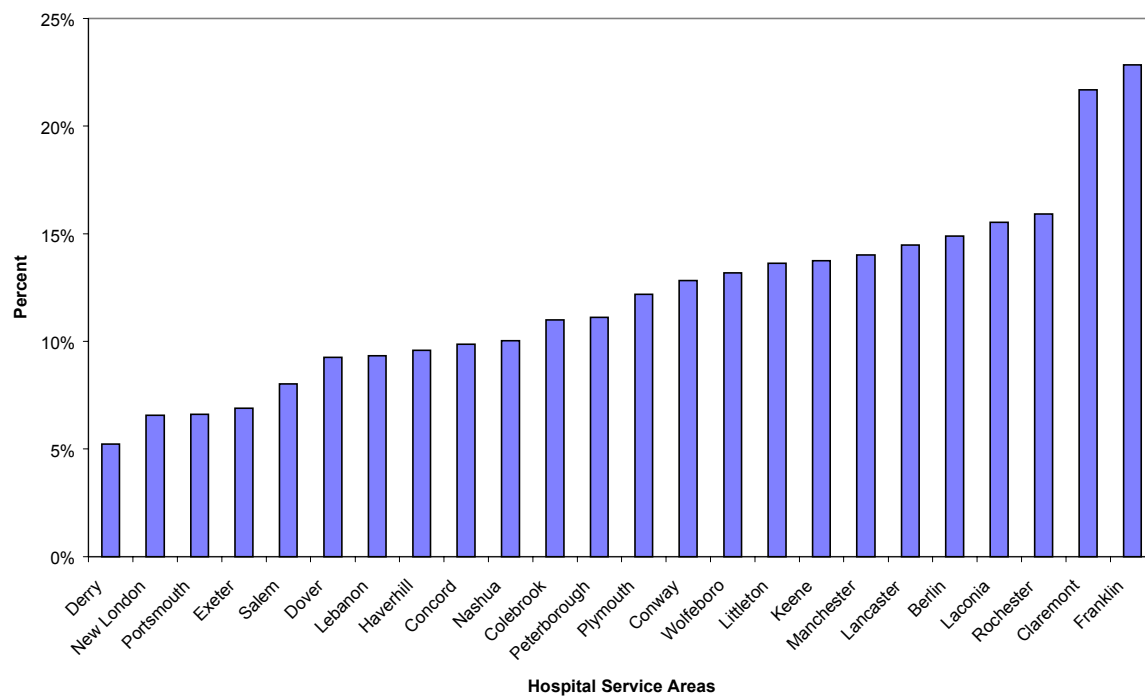
Mothers of Infants (Age <1) who Smoked During Pregnancy



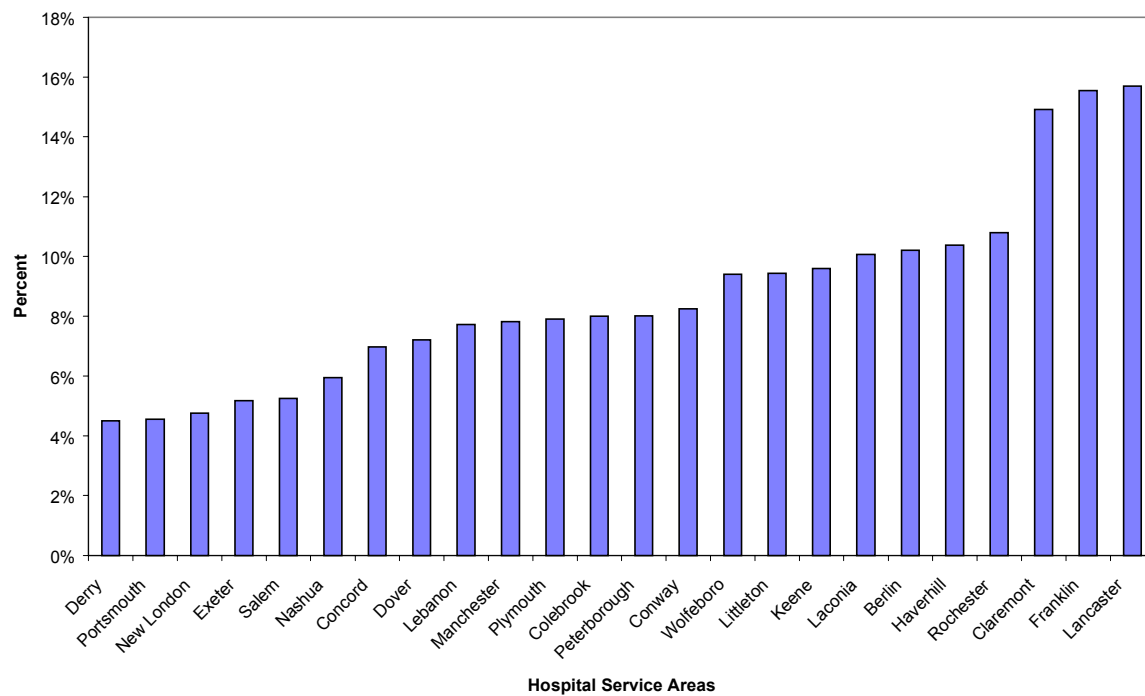
Mothers of Infants (Age <1) who Initiated Late/No Prenatal Care



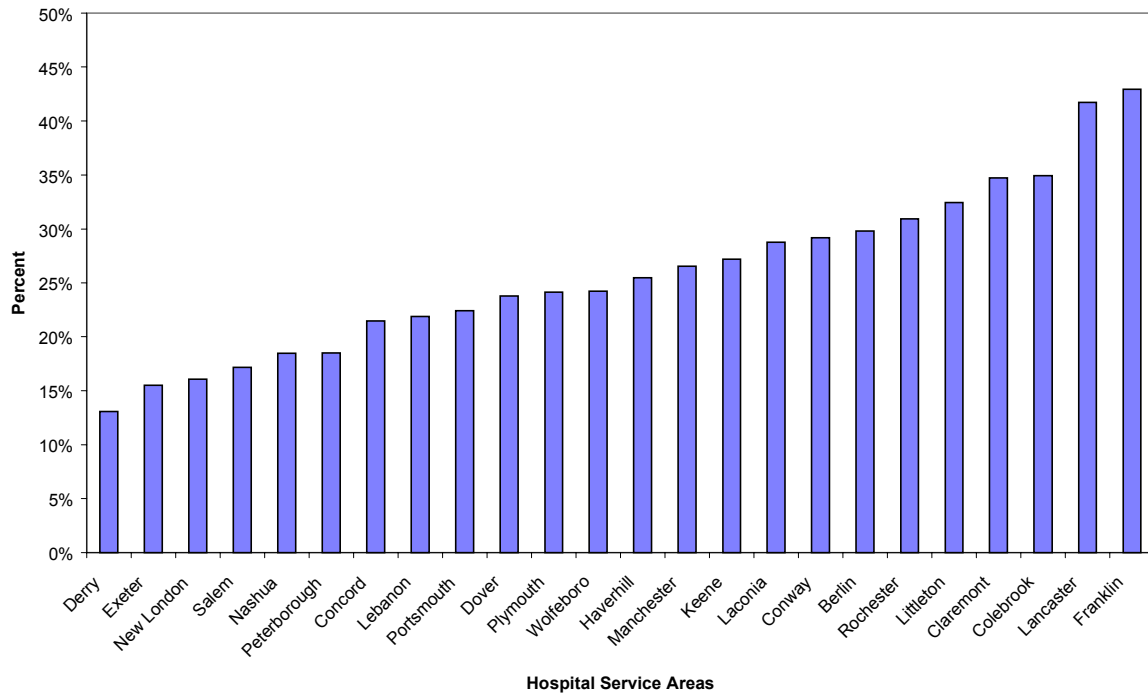
Mothers of Infants (Age <1) who Received <12 Years Education



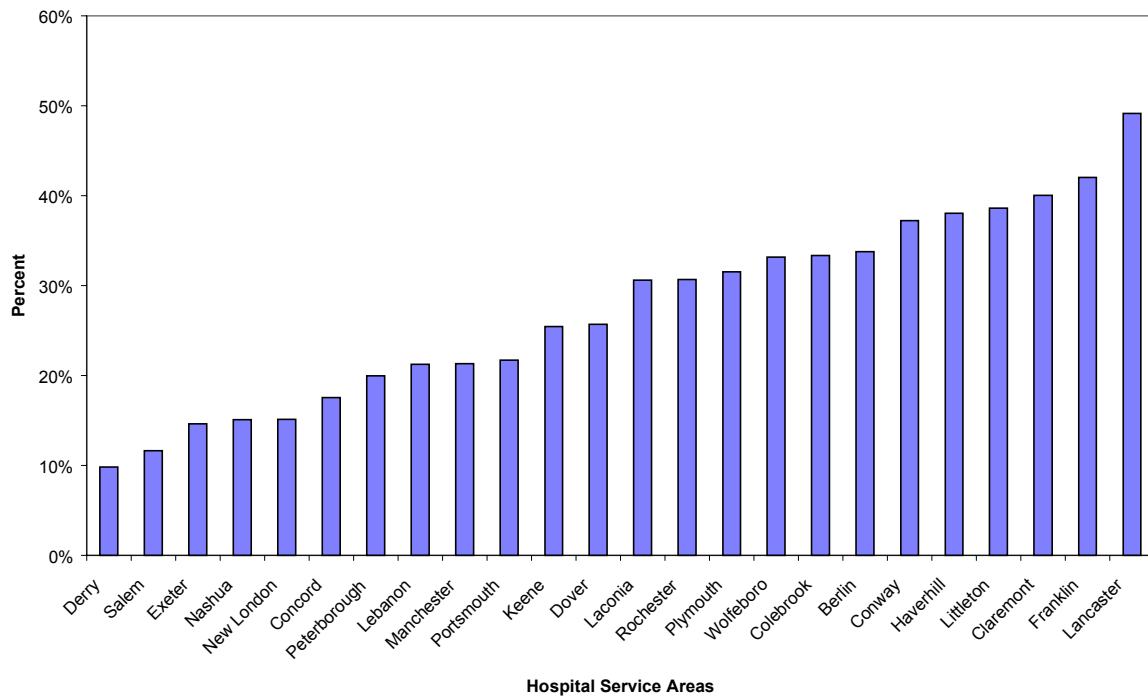
Mothers Aged <20 who Gave Birth



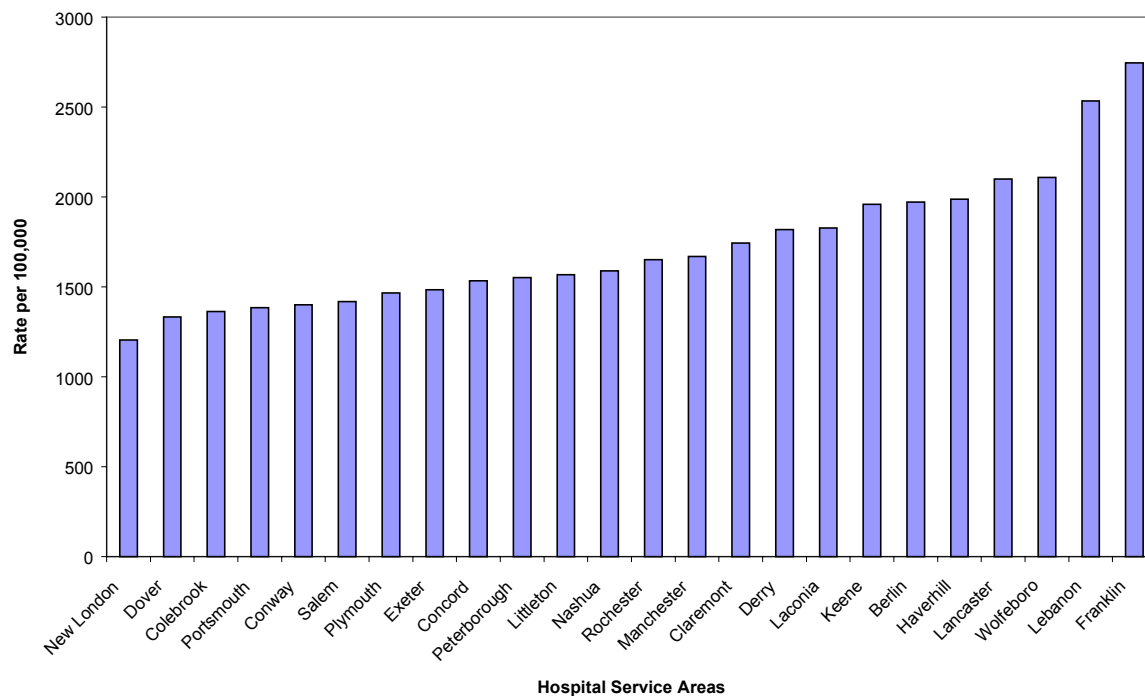
Unmarried Mothers who Gave Birth



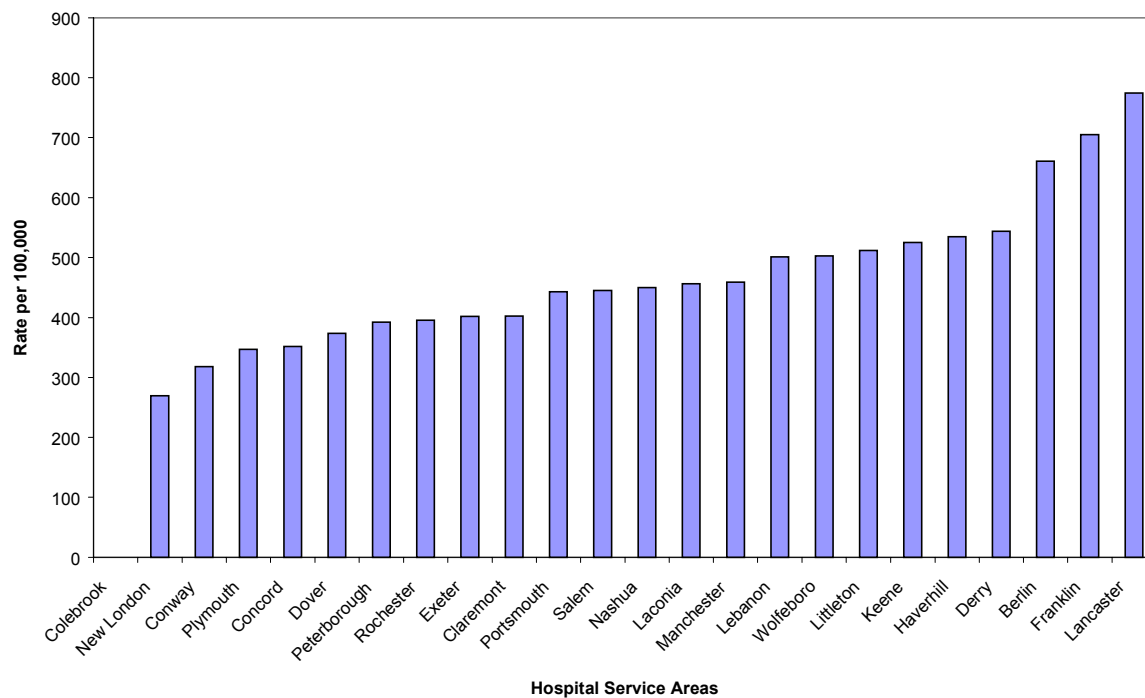
Mothers who Received Medicaid Payments



All Hospital Admissions among Children (Age 1-14)

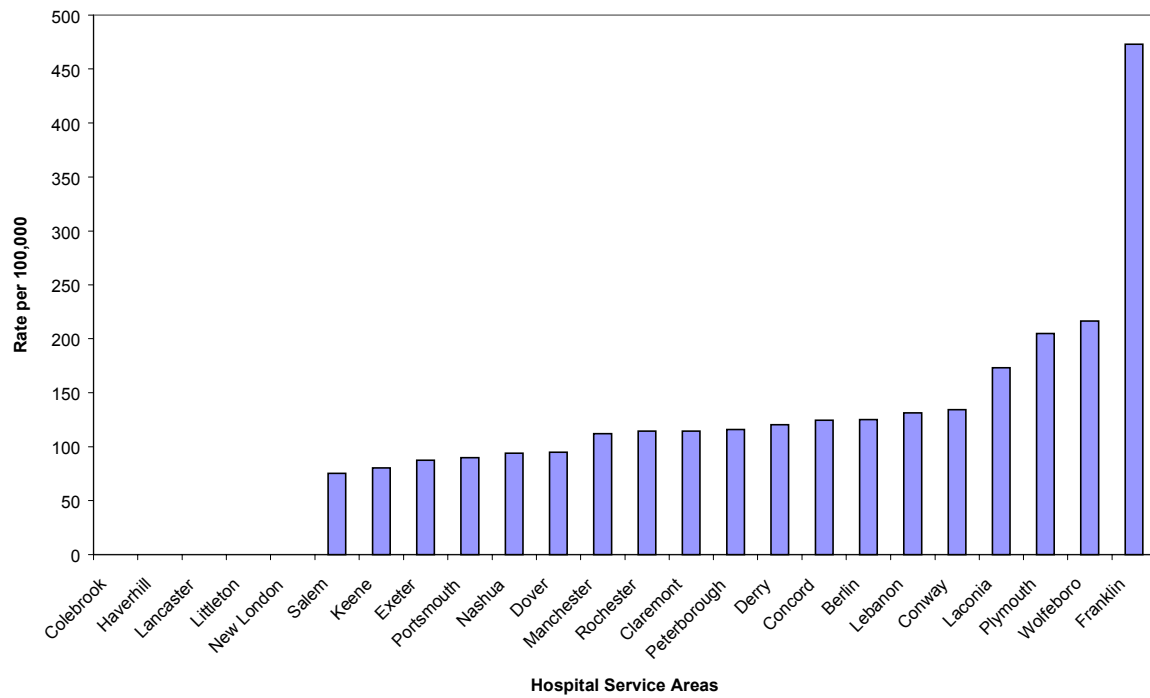


Ambulatory Care Sensitive Admissions among Children (Age 1-14)

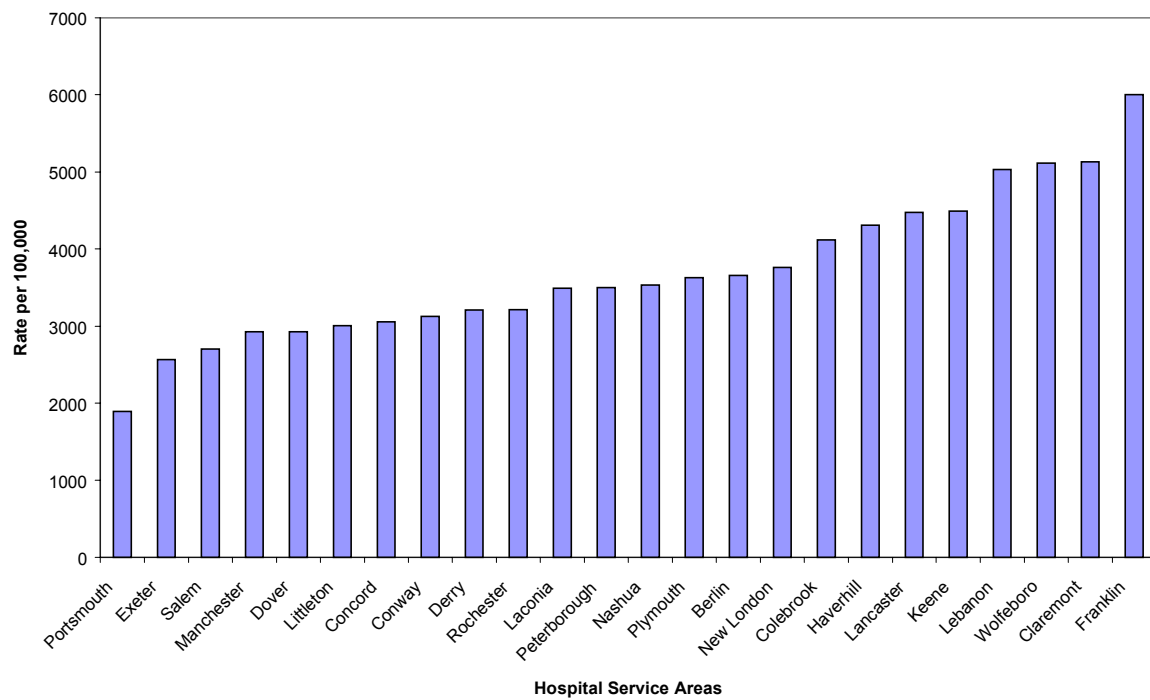


*Hospital Service Areas with less than 20 cases observed are reported as a null value.

Marker Condition Admissions among Children (Age 1-14)

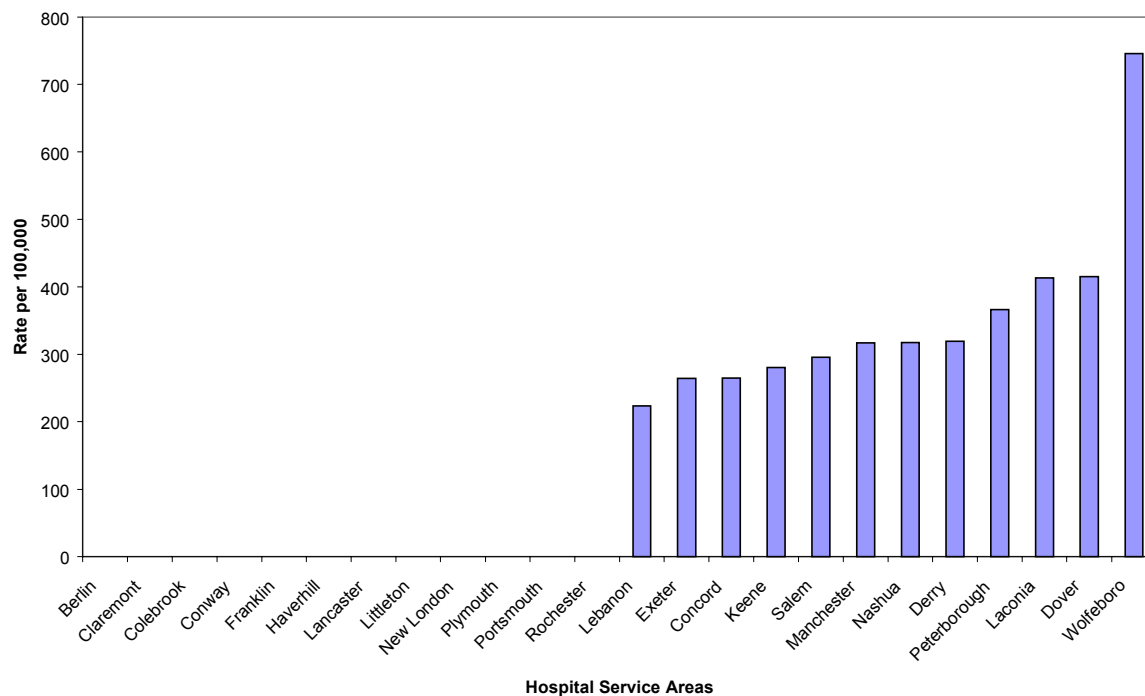


All Hospital Admissions among Adolescents (Age 15-17)

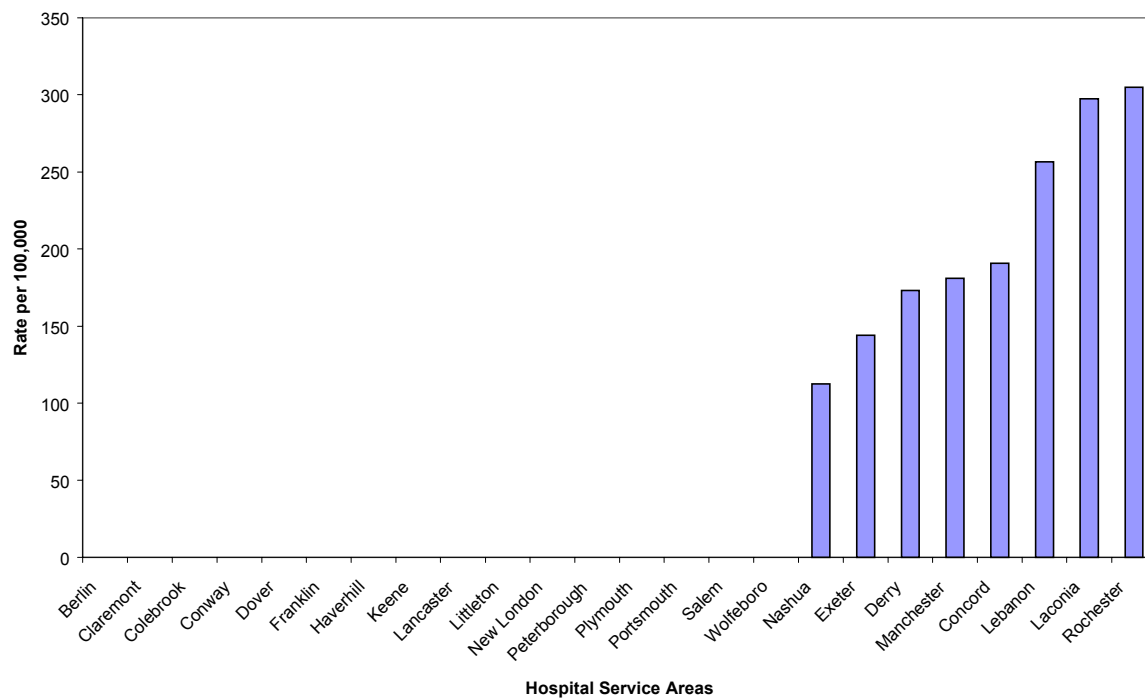


*Hospital Service Areas with less than 20 cases observed are reported as a null value.

Ambulatory Care Sensitive Admissions among Adolescents (Age 15-17)

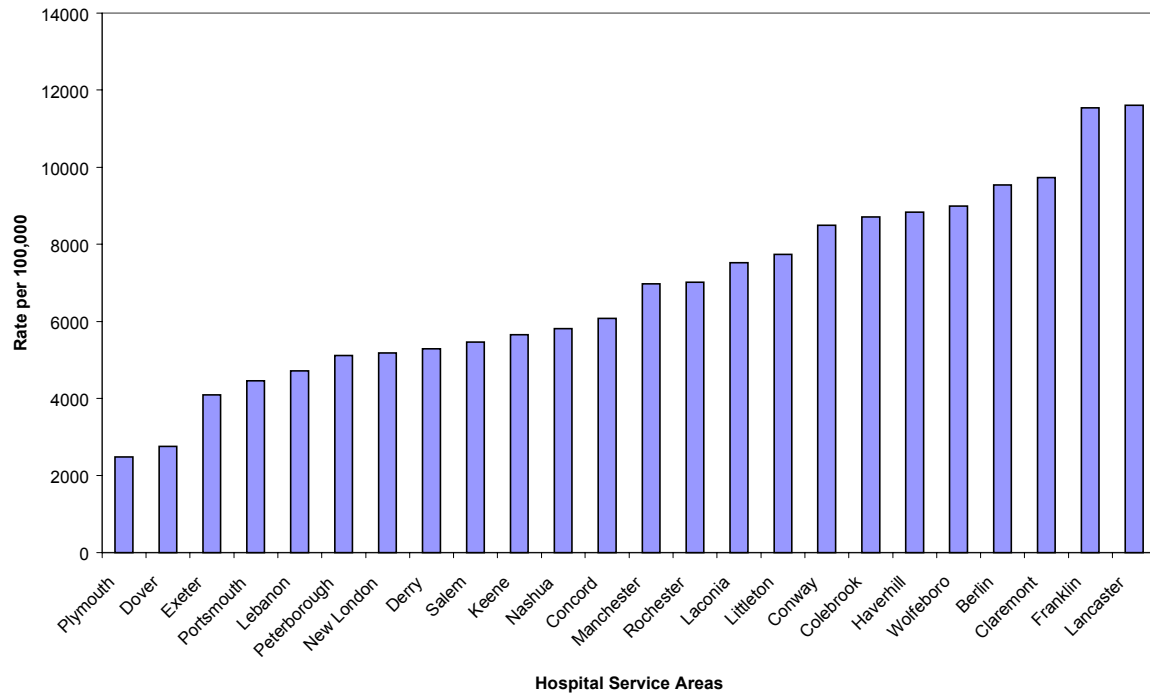


Marker Condition Admissions among Adolescents (Age 15-17)

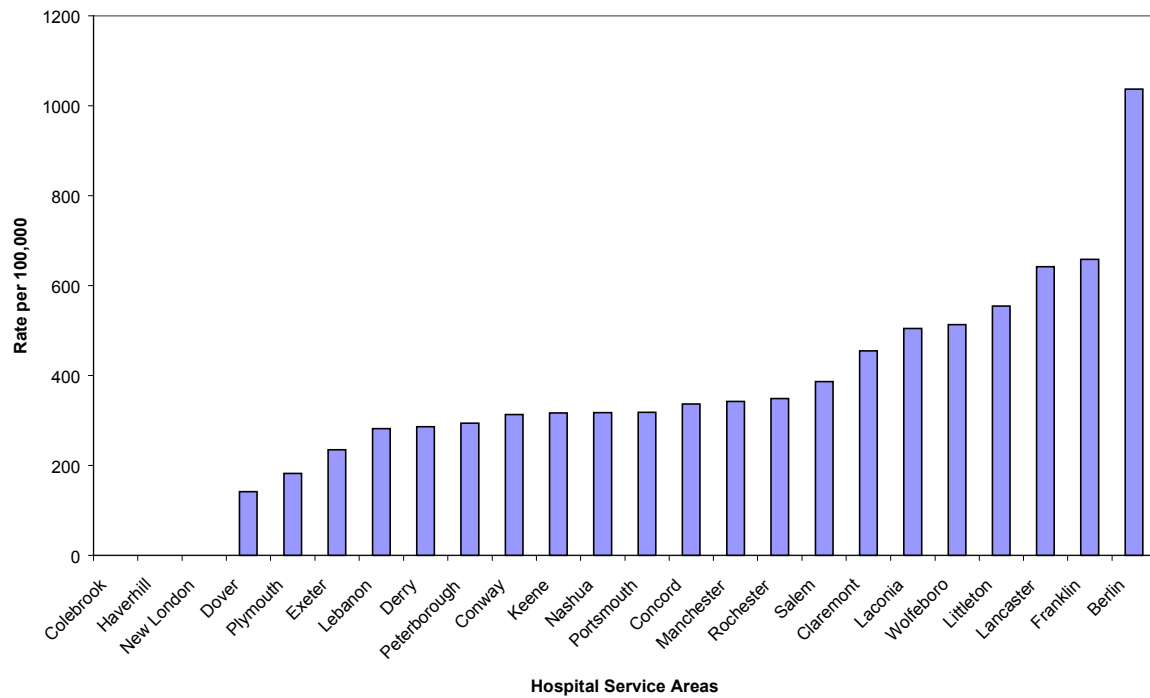


*Hospital Service Areas with less than 20 cases observed are reported as a null value.

All Hospital Admissions among Young Adults (Age 18-24)

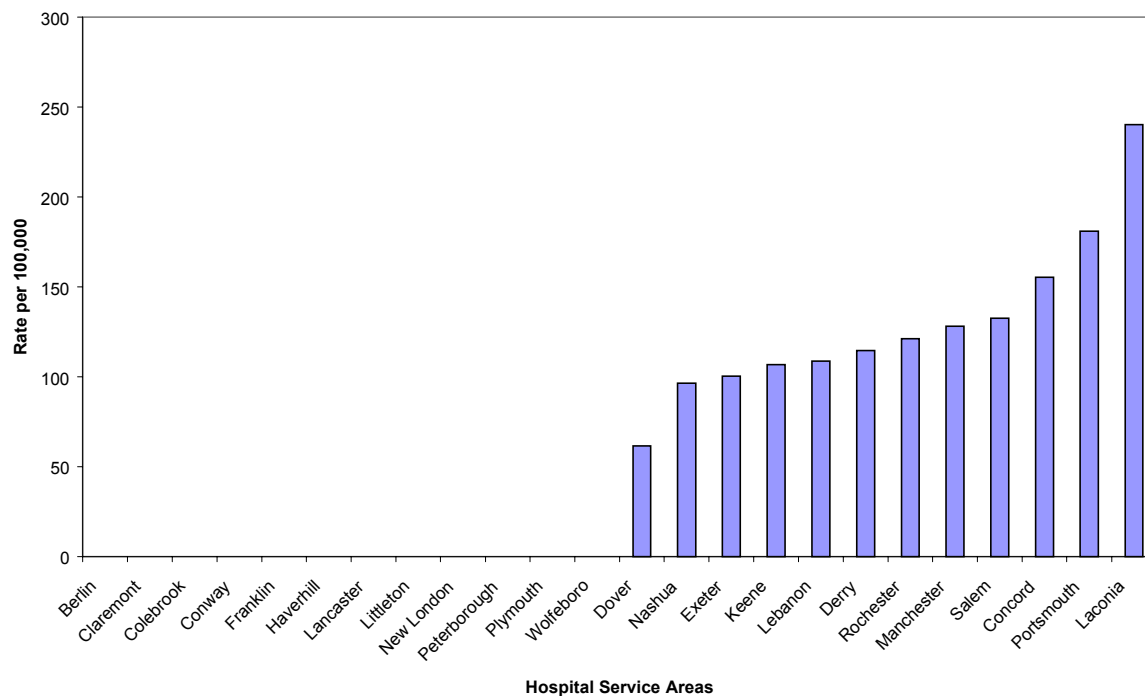


Ambulatory Care Sensitive Admissions among Young Adults (Age 18-24)

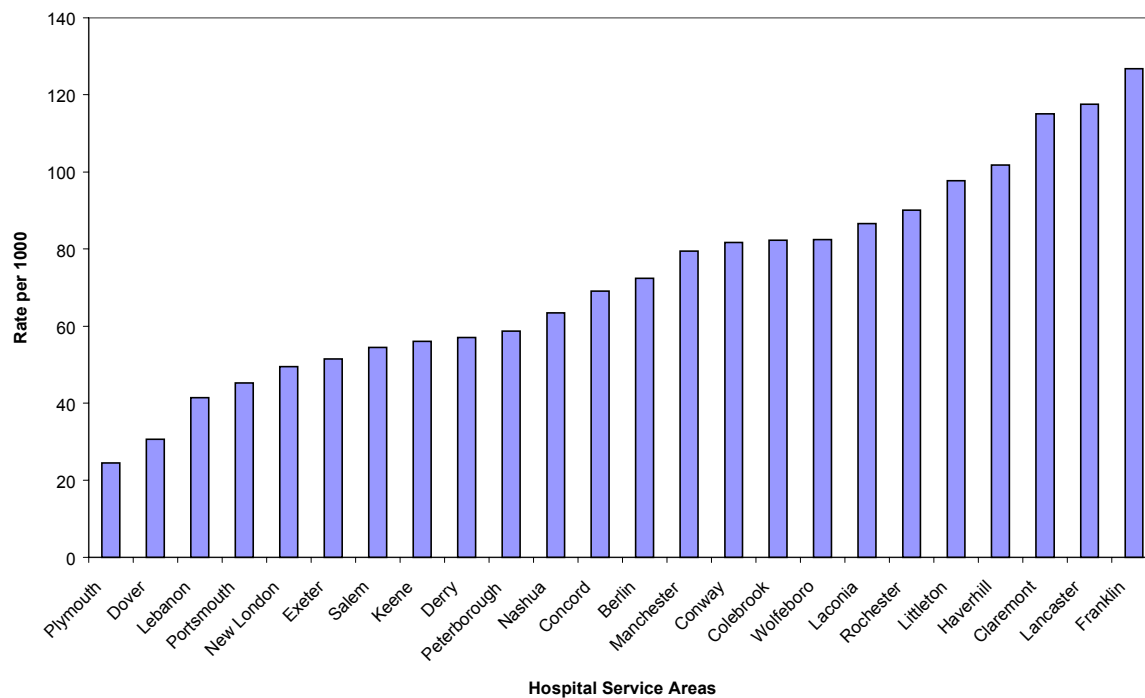


*Hospital Service Areas with less than 20 cases observed are reported as a null value.

Marker Condition Admissions among Young Adults (Age 18-24)

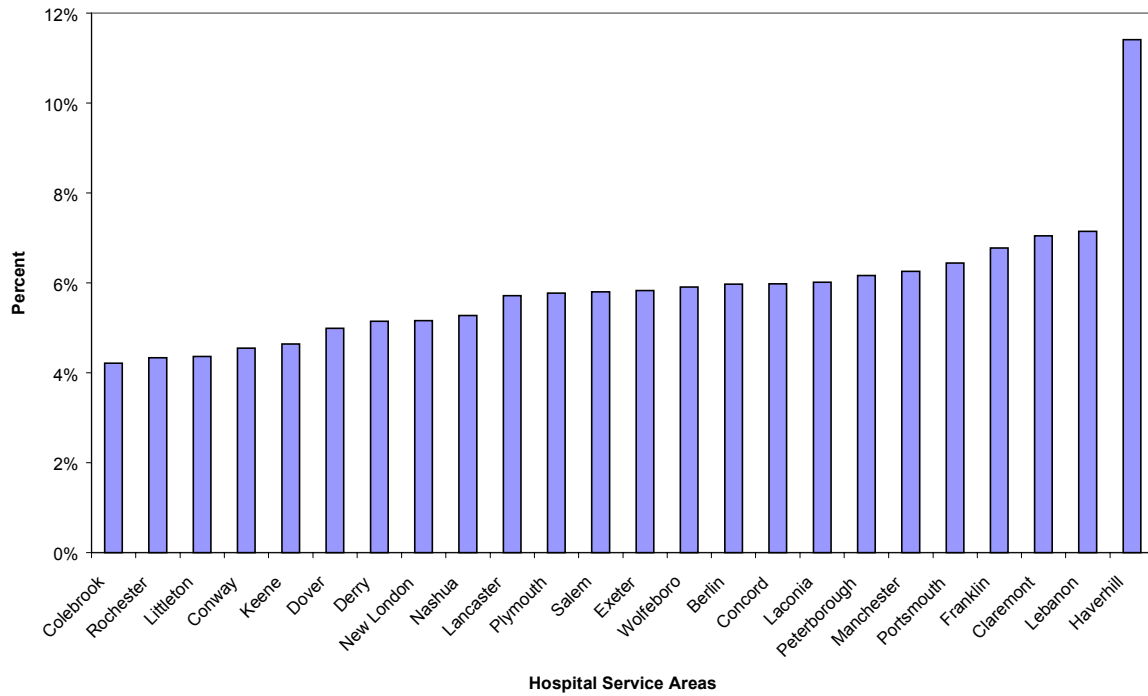


Birth Rate per 1,000 Females (Age 18-24)

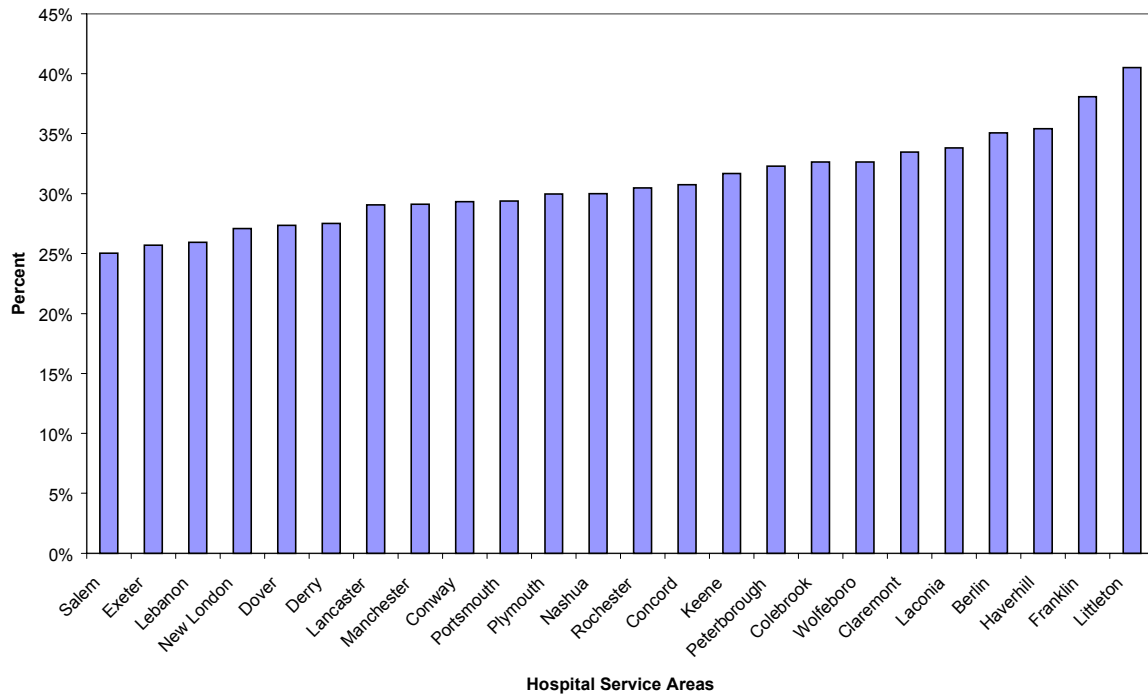


*Hospital Service Areas with less than 20 cases observed are reported as a null value.

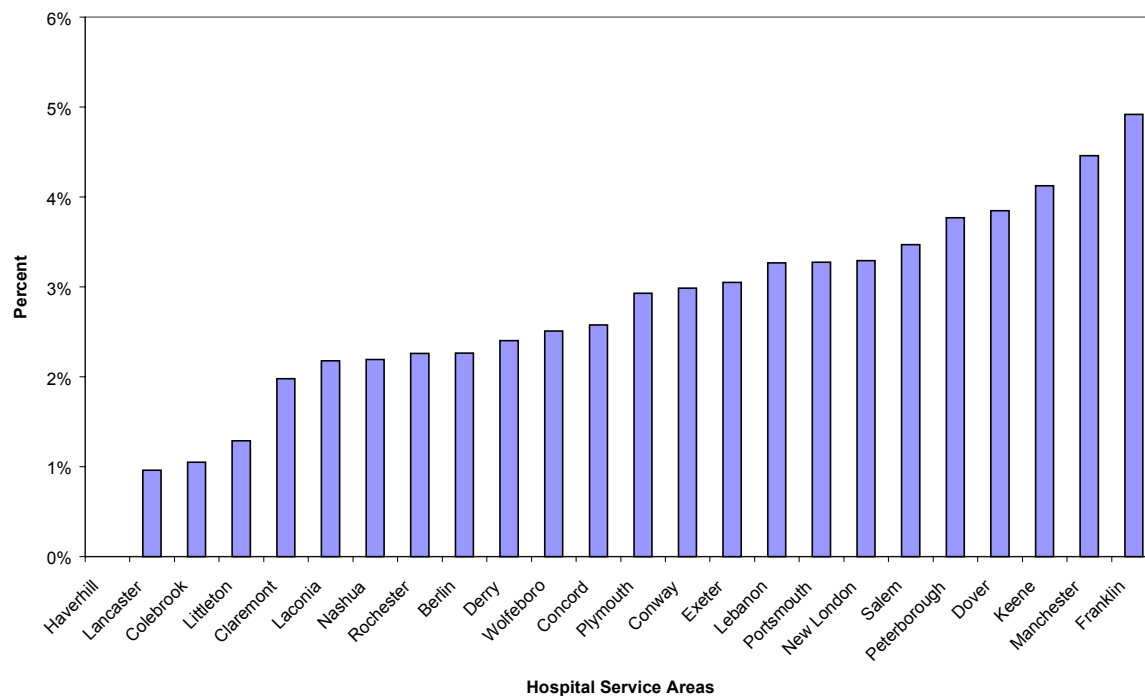
Low Birthweight Births among Young Adults (Age 18-24)



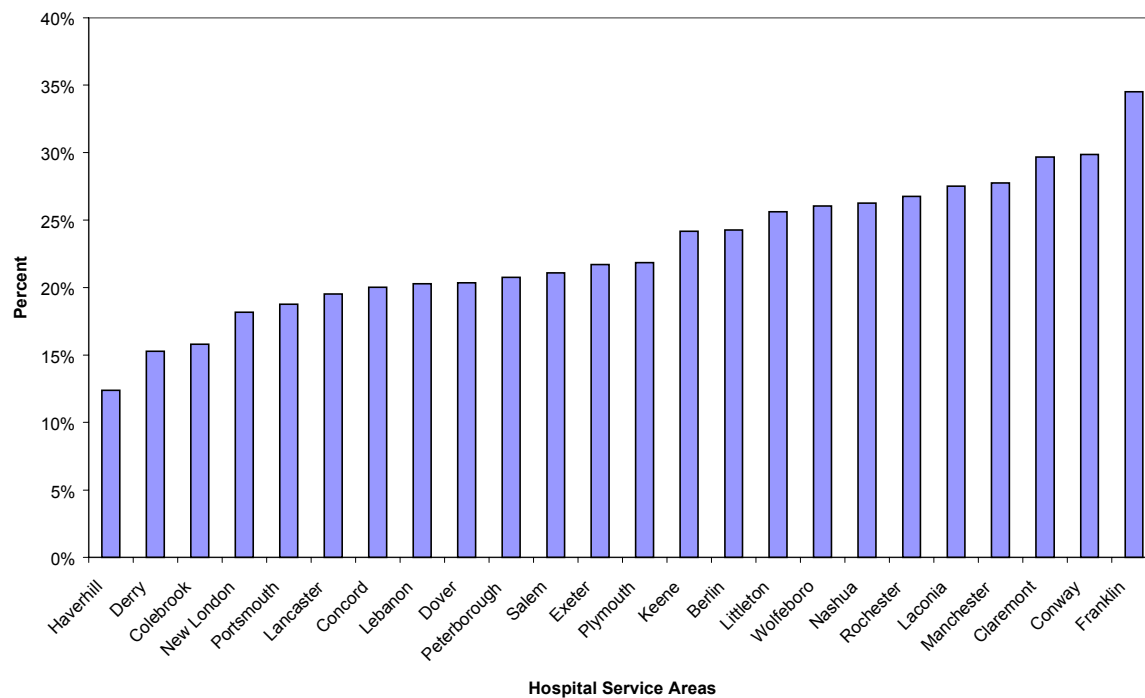
Maternal Smoking among Young Adults (Age 18-24)



Late/No Prenatal Care Initiation among Young Adults (Age 18-24)

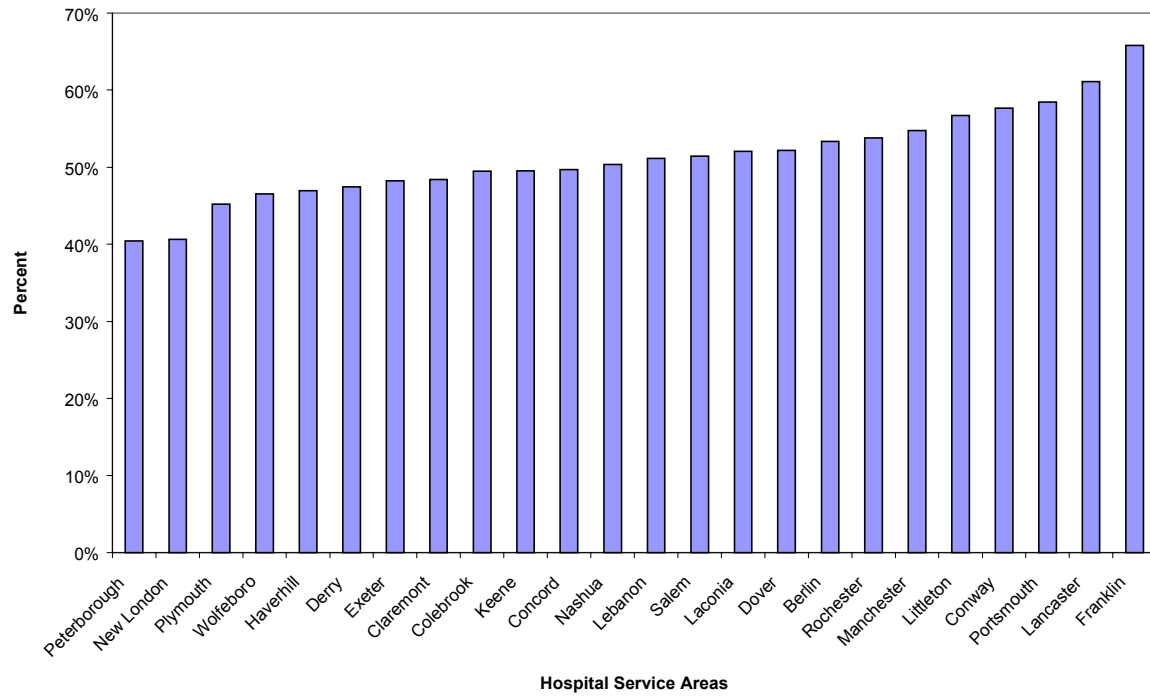


Mother's Education <12 Years among Young Adults (Age 18-24)

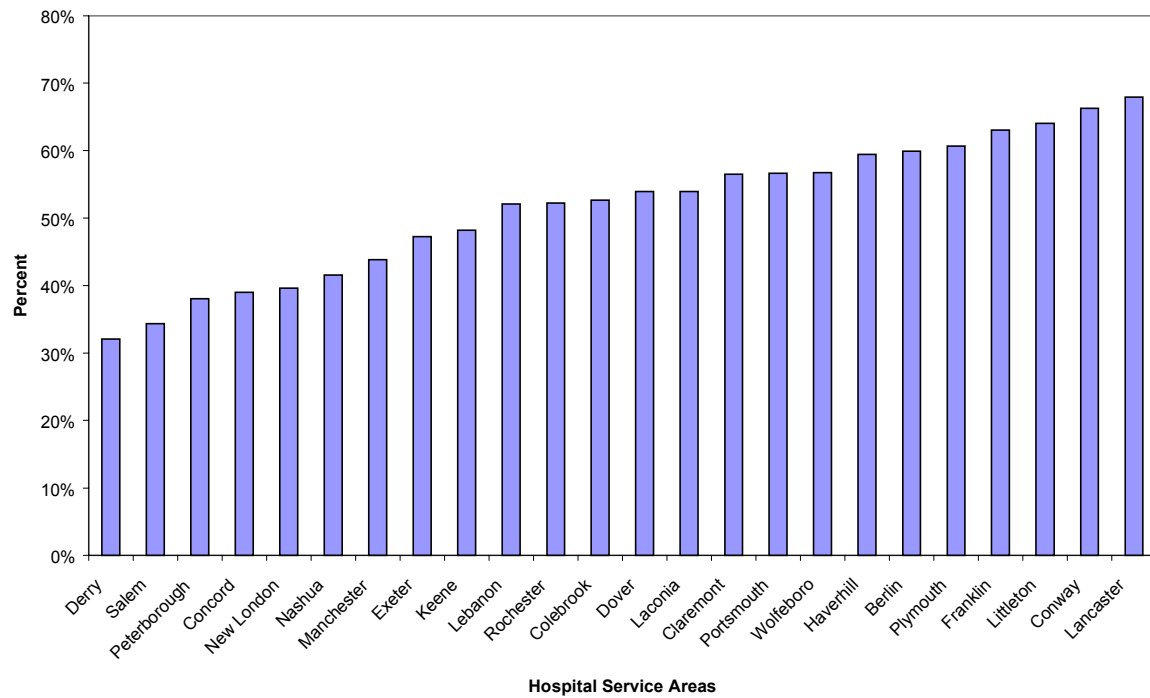


*Hospital Service Areas with less than 20 cases observed are reported as a null value.

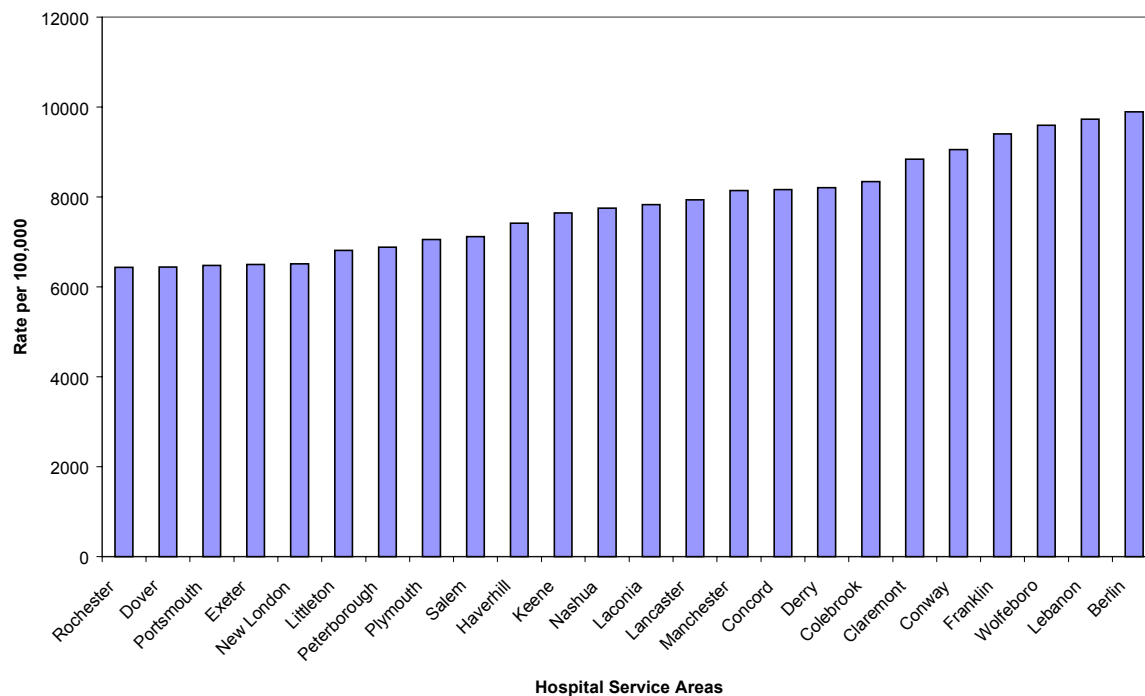
Unmarried Mothers among Young Adults (Age 18-24)



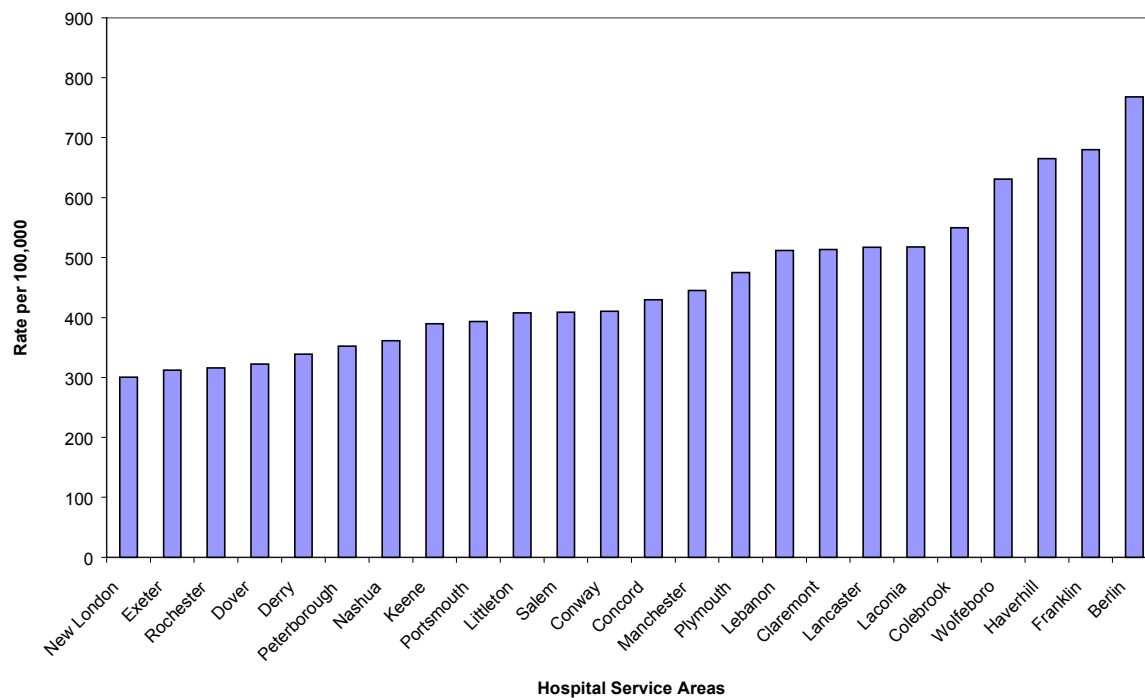
Young Adults (Age 18-24) Receiving Medicaid Payments



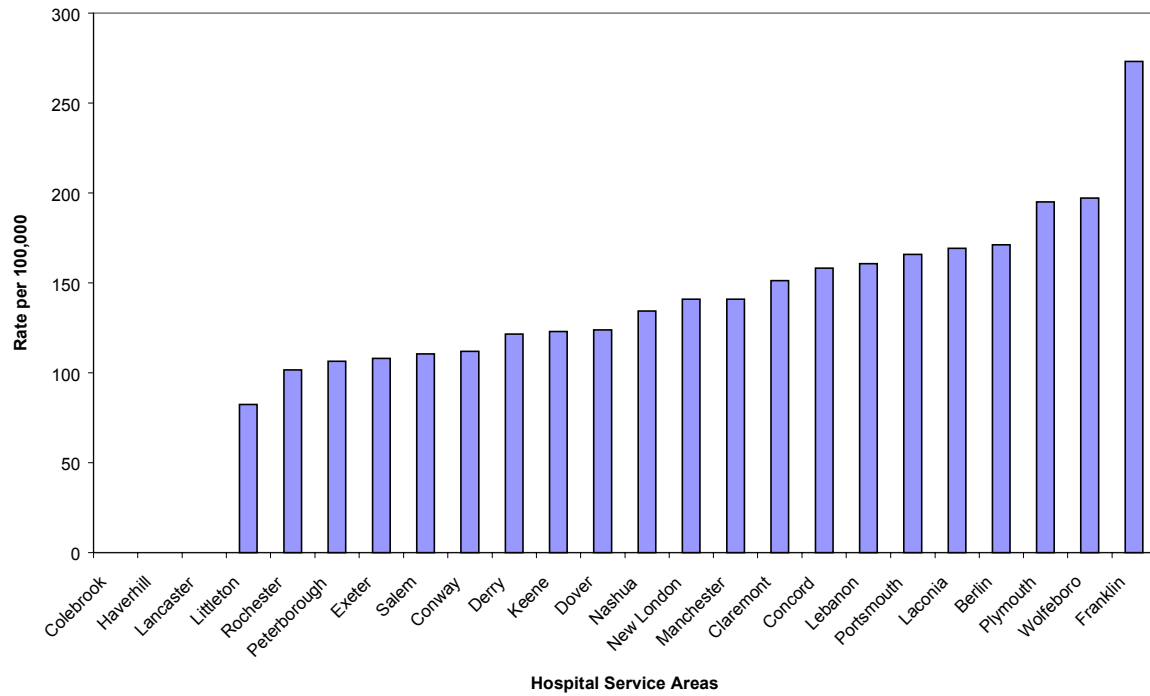
All Hospital Admissions among Adults (Age 25-44)



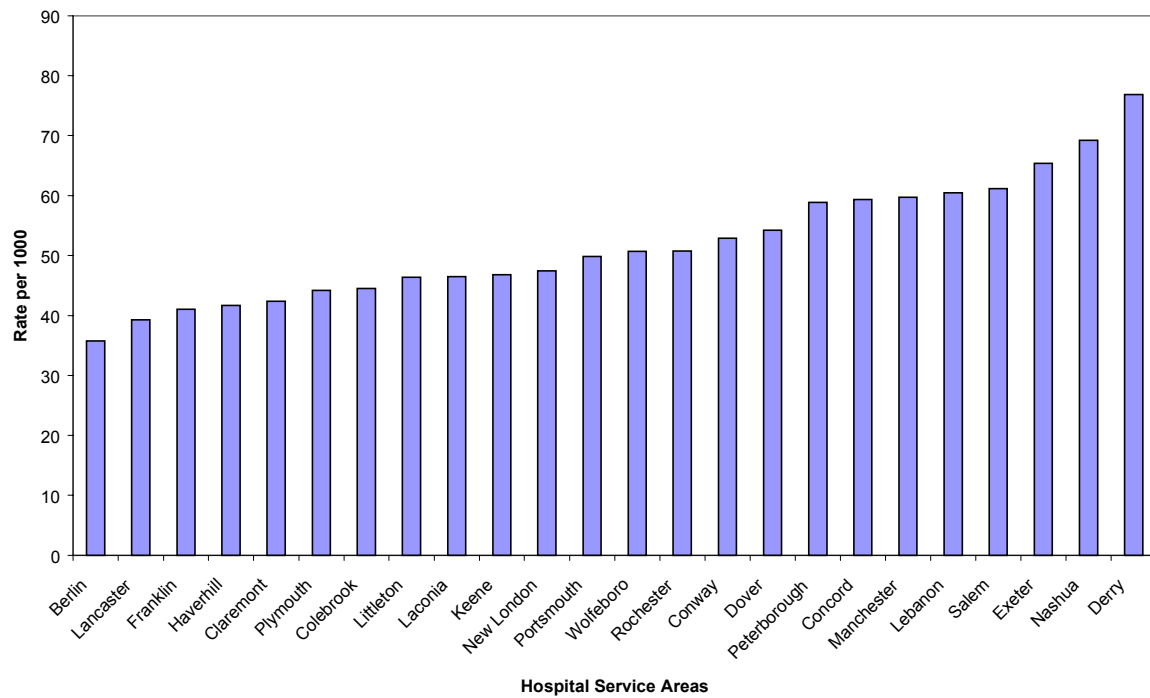
Ambulatory Care Sensitive Admissions among Adults (Age 25-44)



Marker Condition Admissions among Adults (Age 25-44)

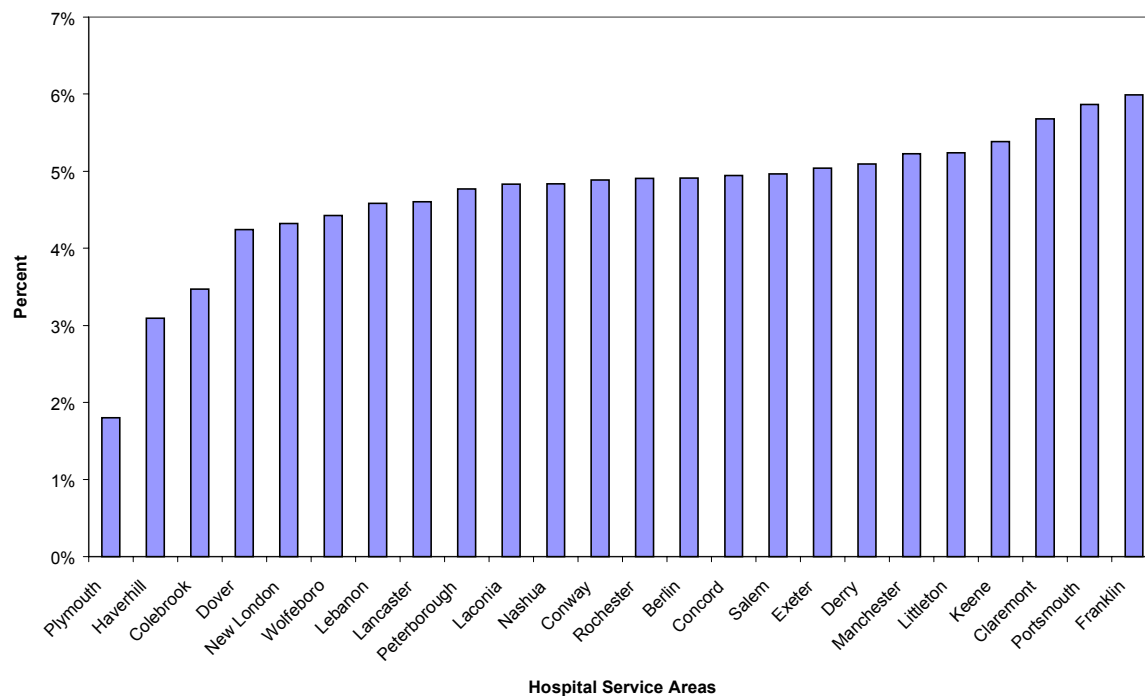


Birth Rate per 1,000 Females (Age 25-44)

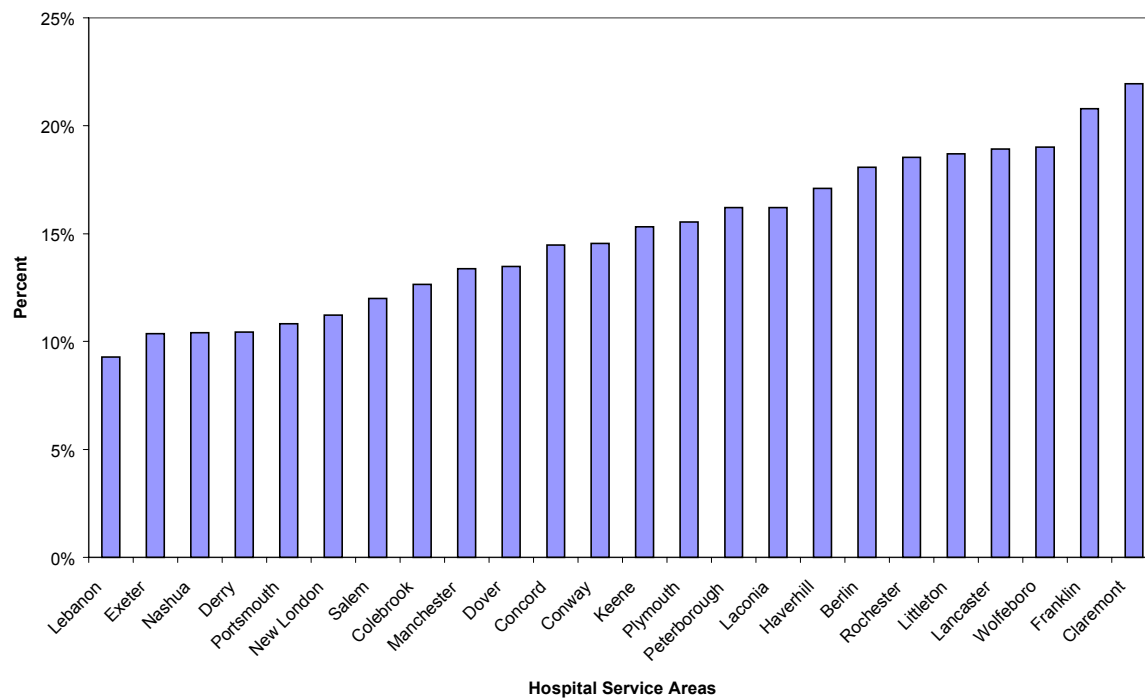


*Hospital Service Areas with less than 20 cases observed are reported as a null value.

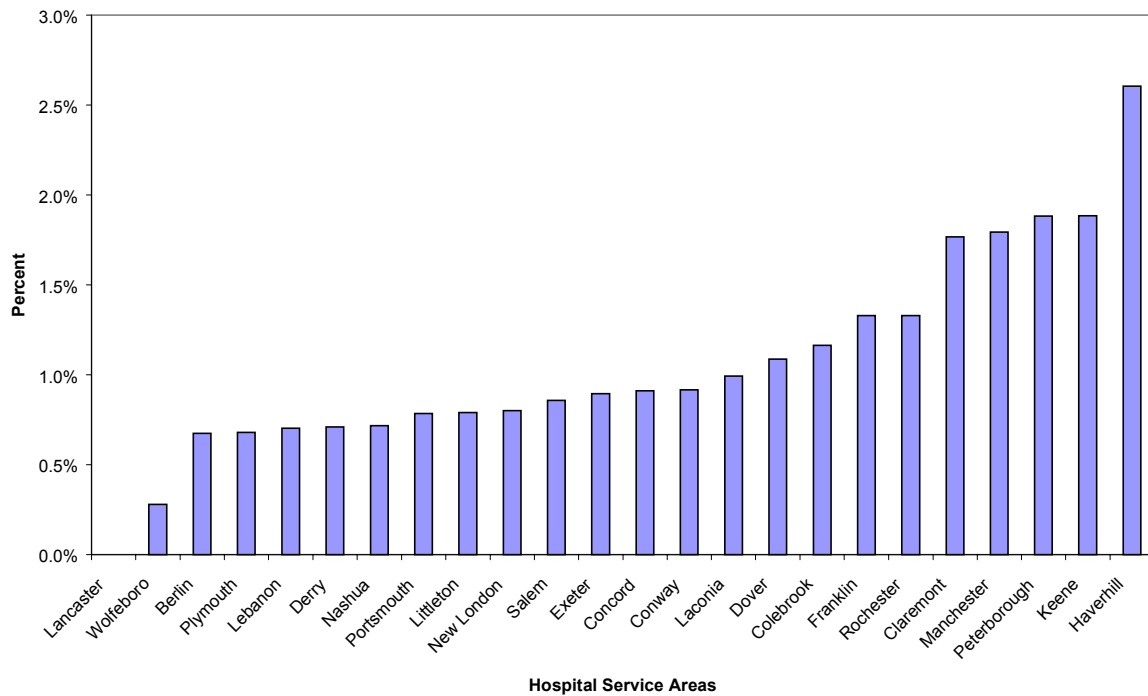
Low Birthweight Births among Adults (Age 25-44)



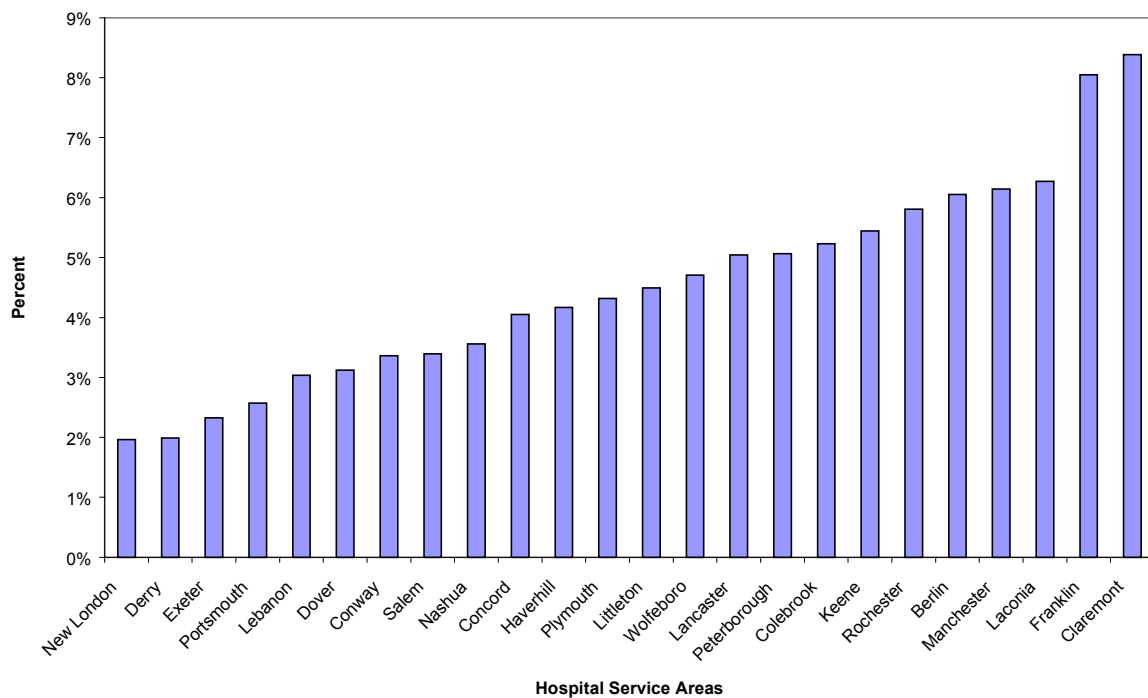
Maternal Smoking among Adults (Age 25-44)



Late/No Prenatal Care Initiation among Adults (Age 25-44)

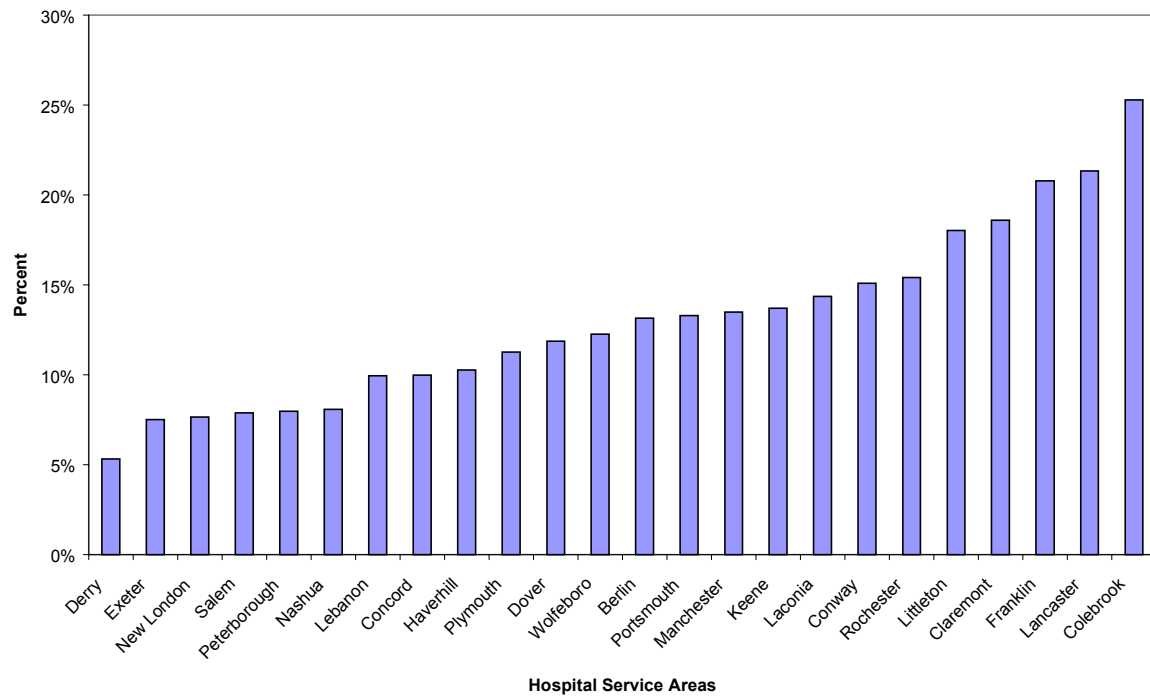


Mother's Education <12 Years among Adults (Age 25-44)

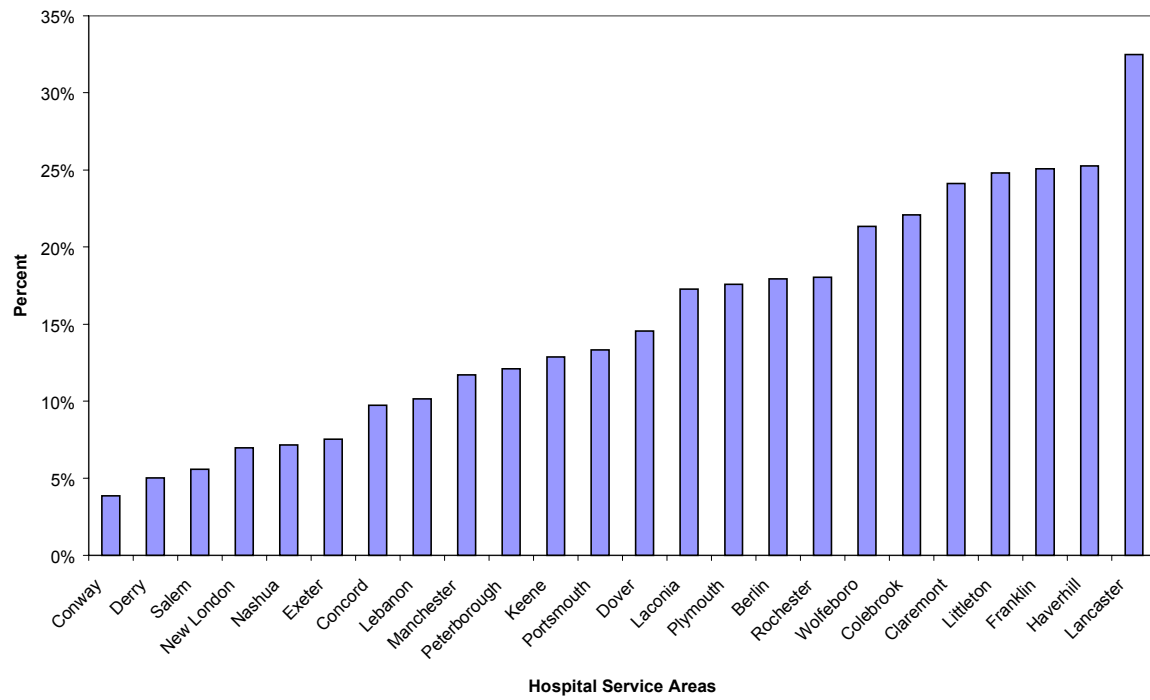


*Hospital Service Areas with less than 20 cases observed are reported as a null value.

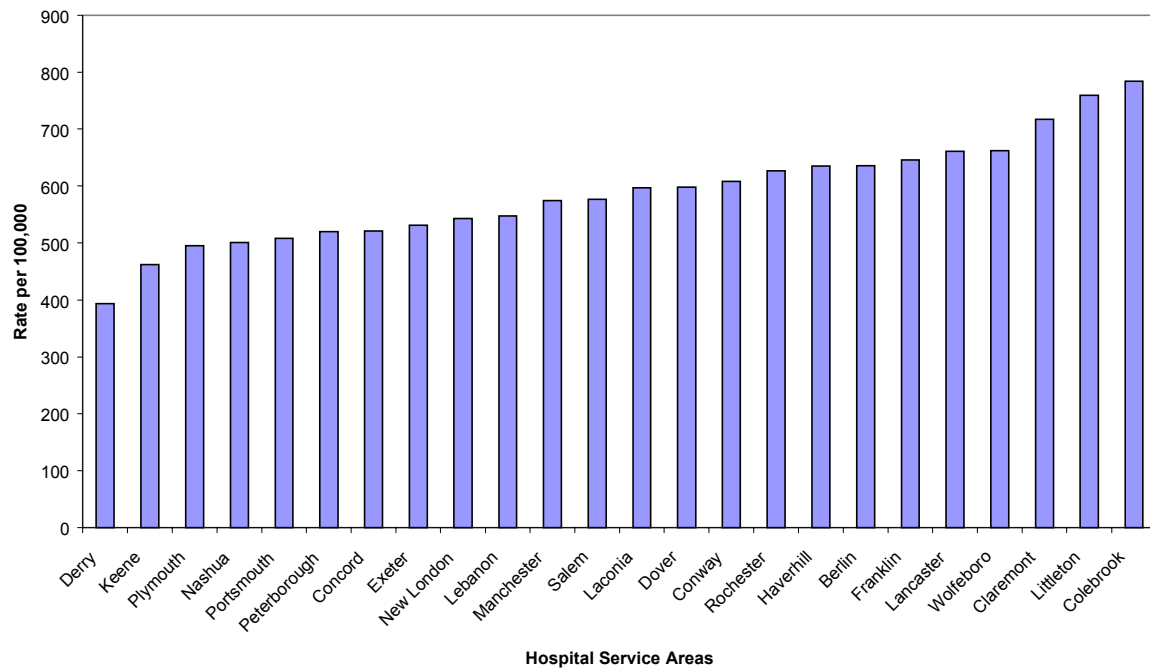
Unmarried Mothers among Adults (Age 25-44)



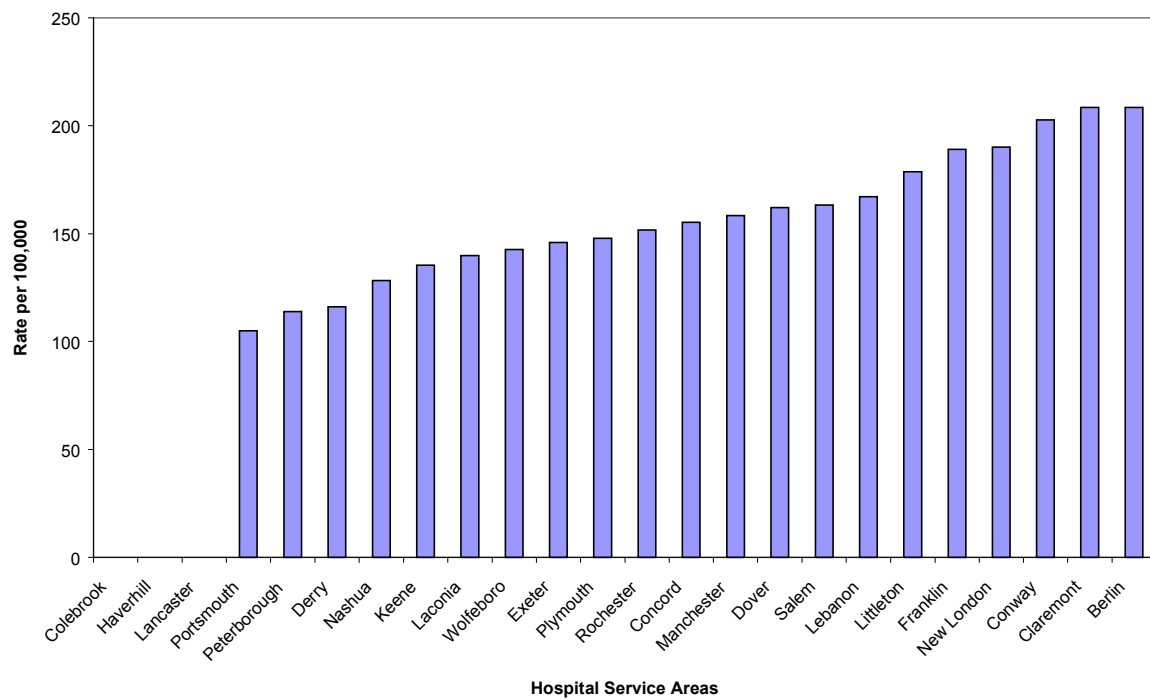
Adults (Age 25-44) Receiving Medicaid Payments



Mortality Rate per 100,000 for Internal Causes among the Middle Aged (Age 45-64)

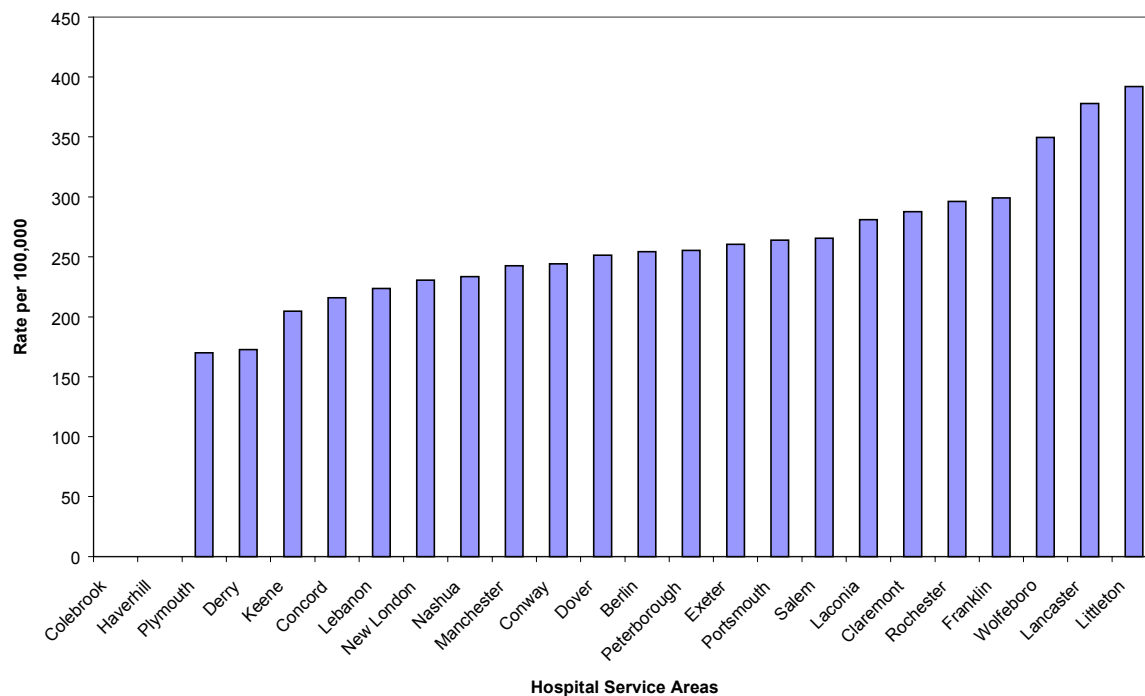


Mortality Rate per 100,000 for Heart Disease among the Middle Aged (45-64)

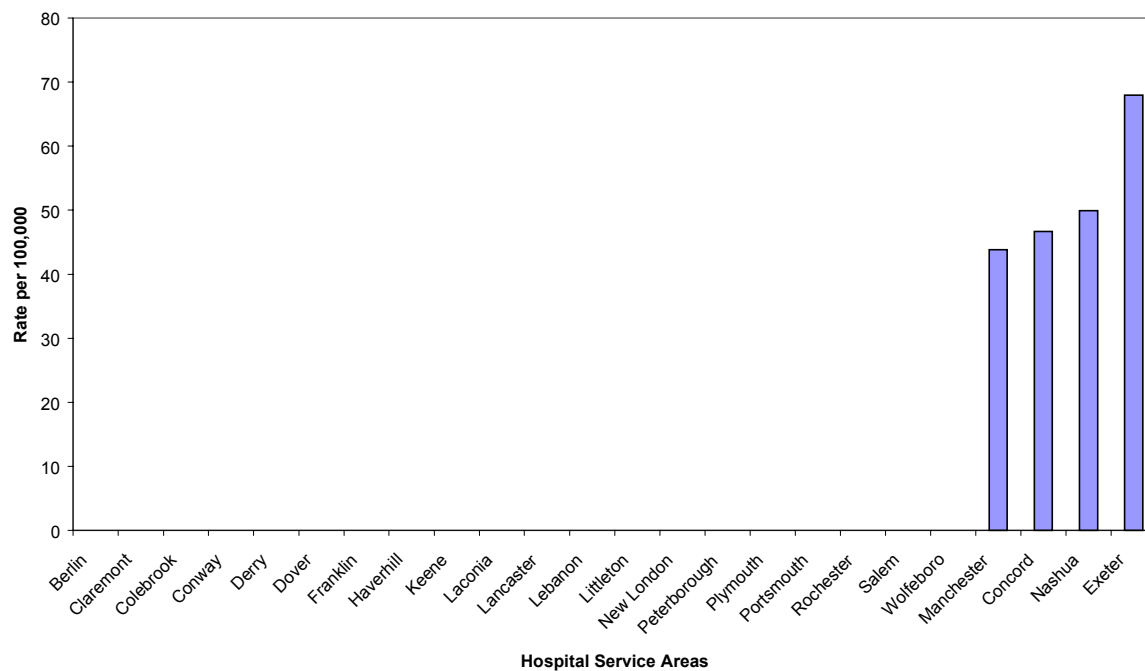


*Hospital Service Areas with less than 20 cases observed are reported as a null value.

Mortality Rate per 100,000 for All Cancers among the Middle Aged (Age 45-64)

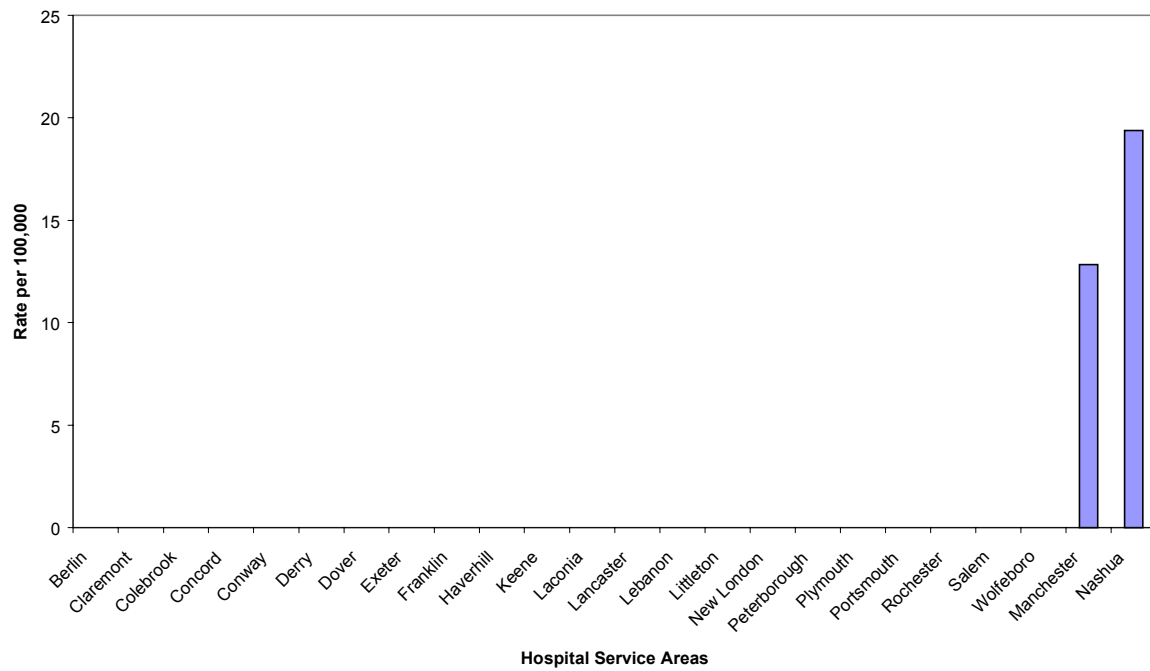


Mortality Rate per 100,000 for Breast Cancer (female) among the Middle Aged (Age 45-64)

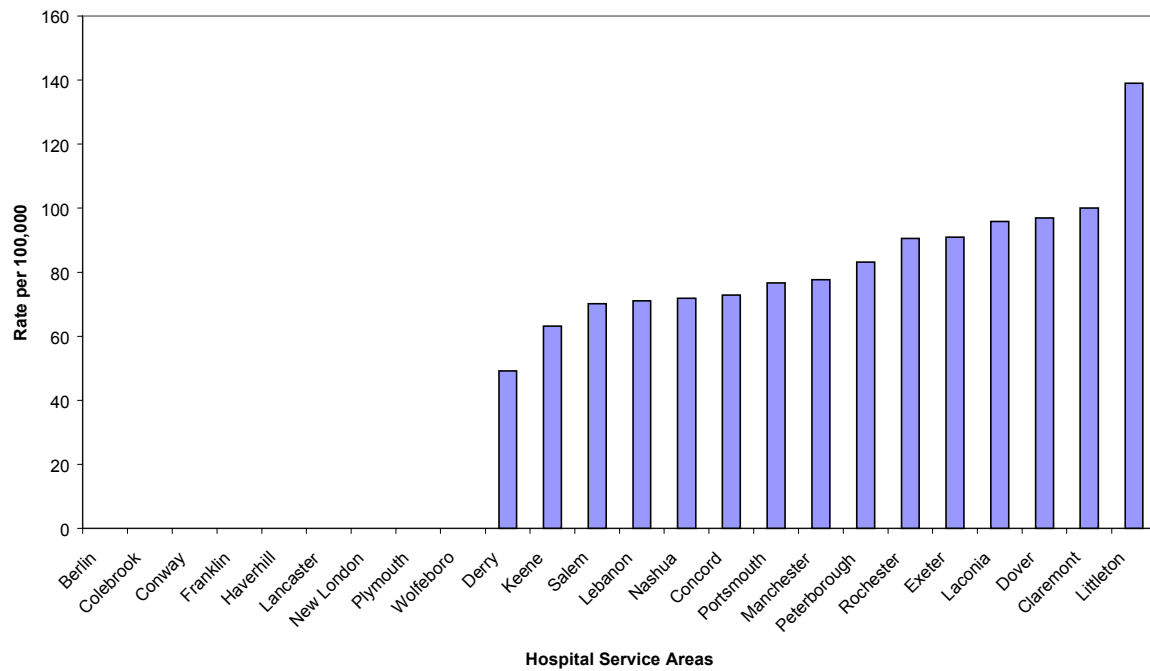


*Hospital Service Areas with less than 20 cases observed are reported as a null value.

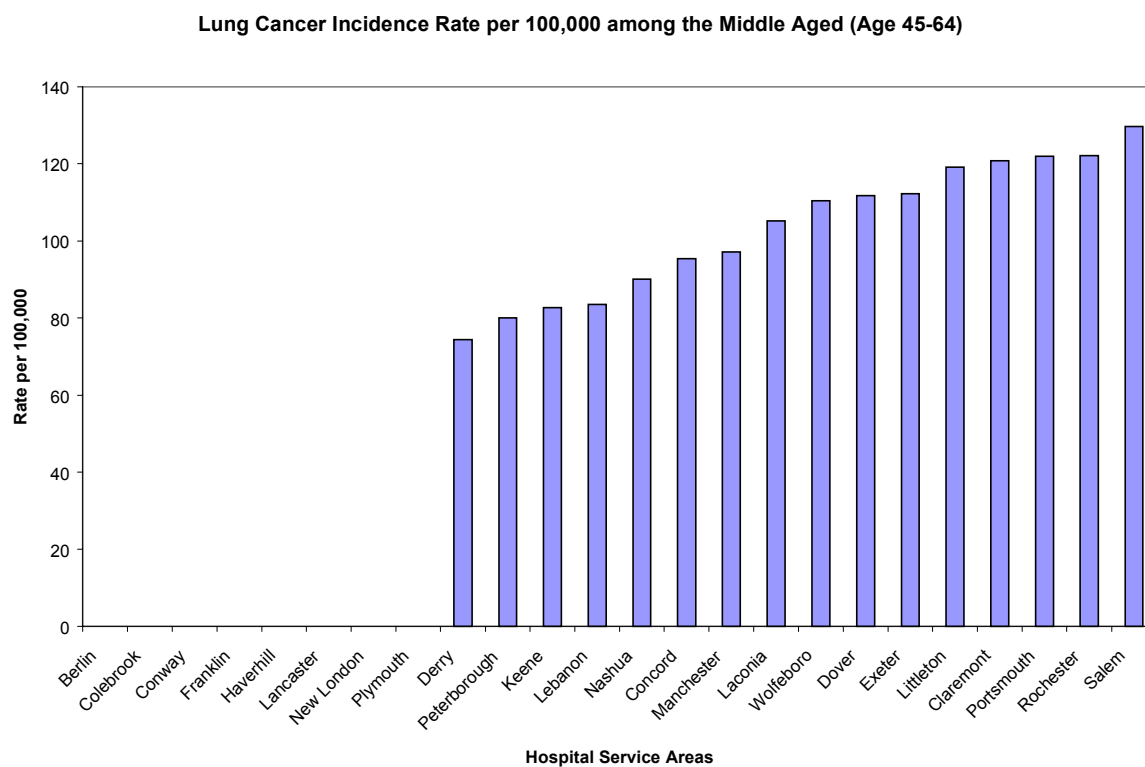
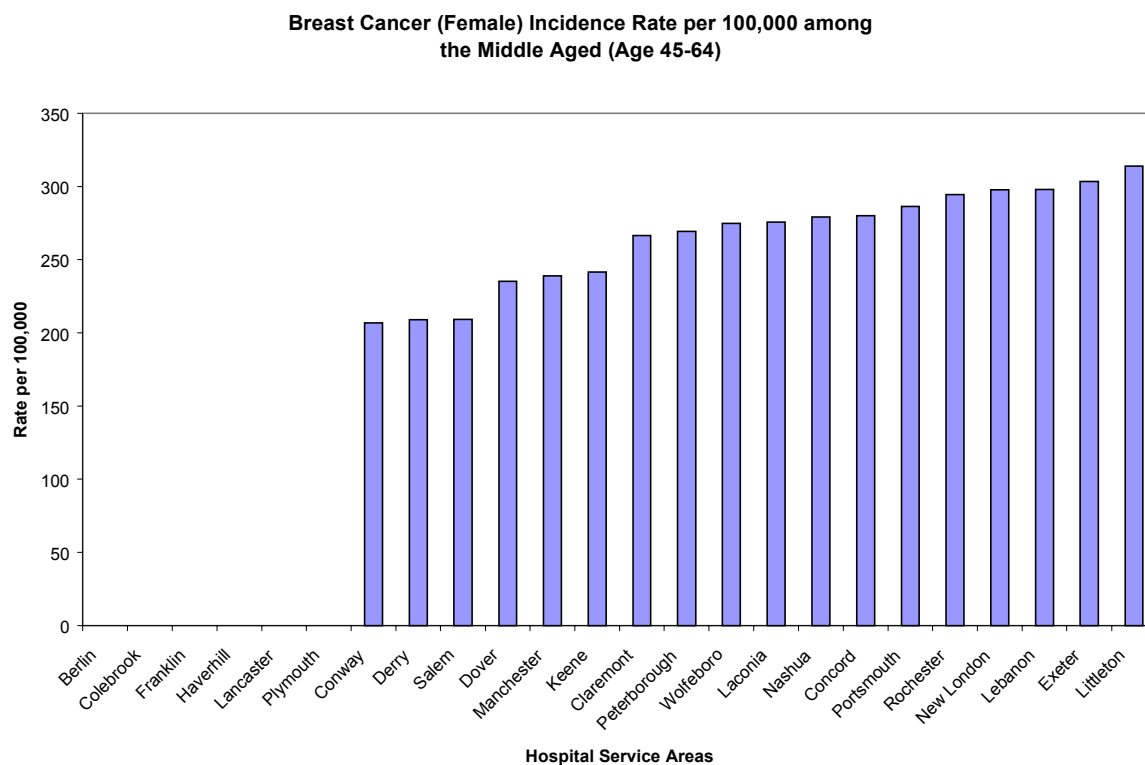
Mortality Rate per 100,000 for Colon Cancer among the Middle Aged (Age 45-64)



Mortality Rate per 100,000 for Lung Cancer among the Middle Aged (Age 45-64)

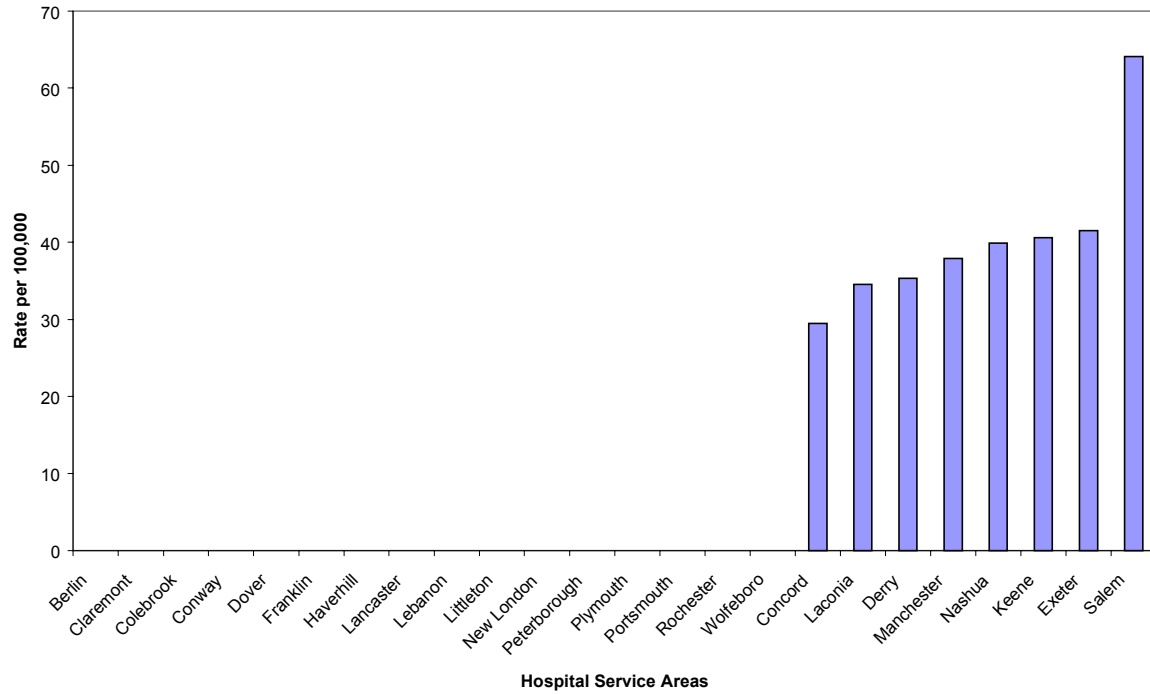


*Hospital Service Areas with less than 20 cases observed are reported as a null value.

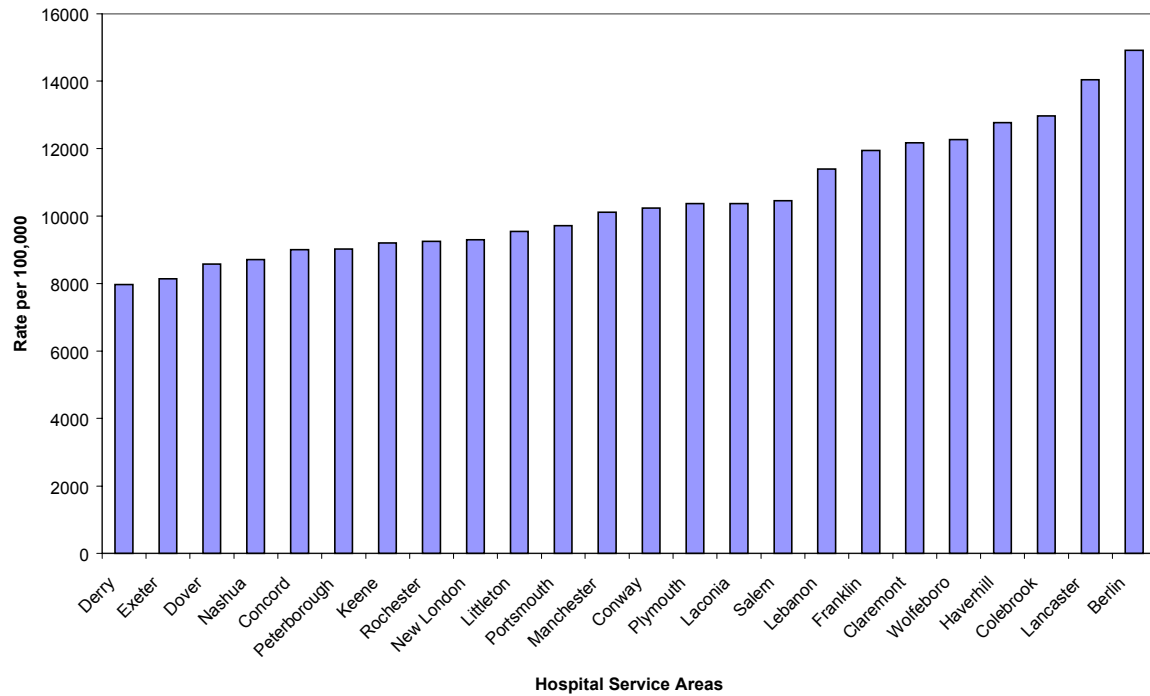


*Hospital Service Areas with less than 20 cases observed are reported as a null value.

Colon Cancer Incidence Rate per 100,000 among the Middle Aged (Age 45-64)

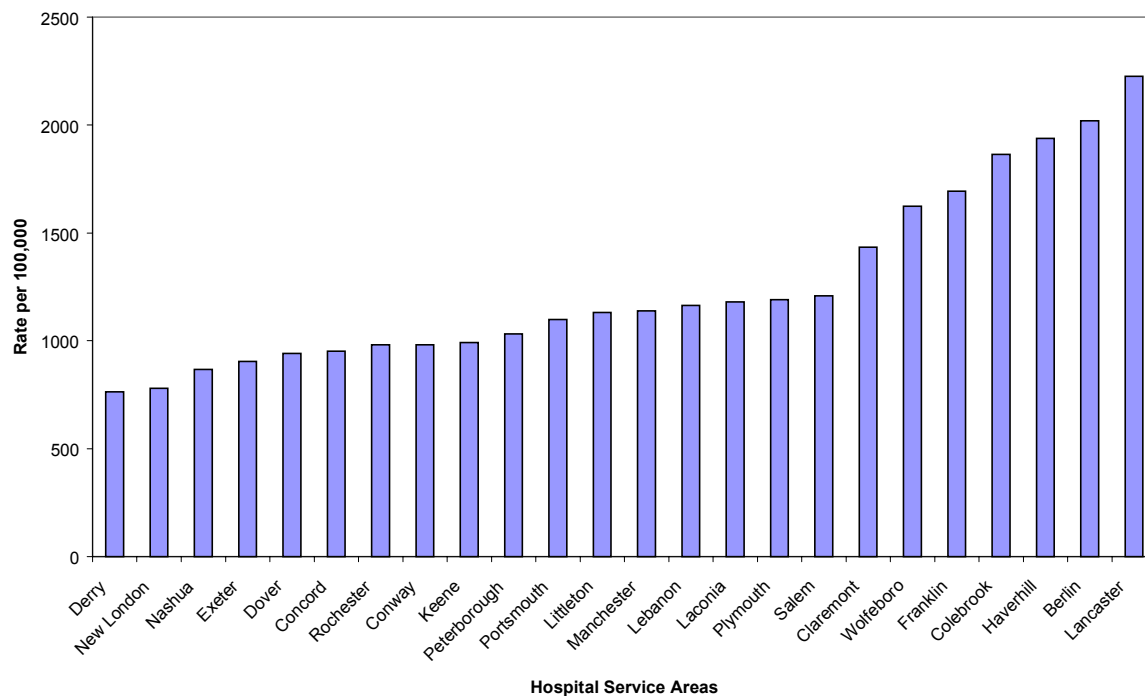


All Hospital Admissions among the Middle Aged (Age 45-64)

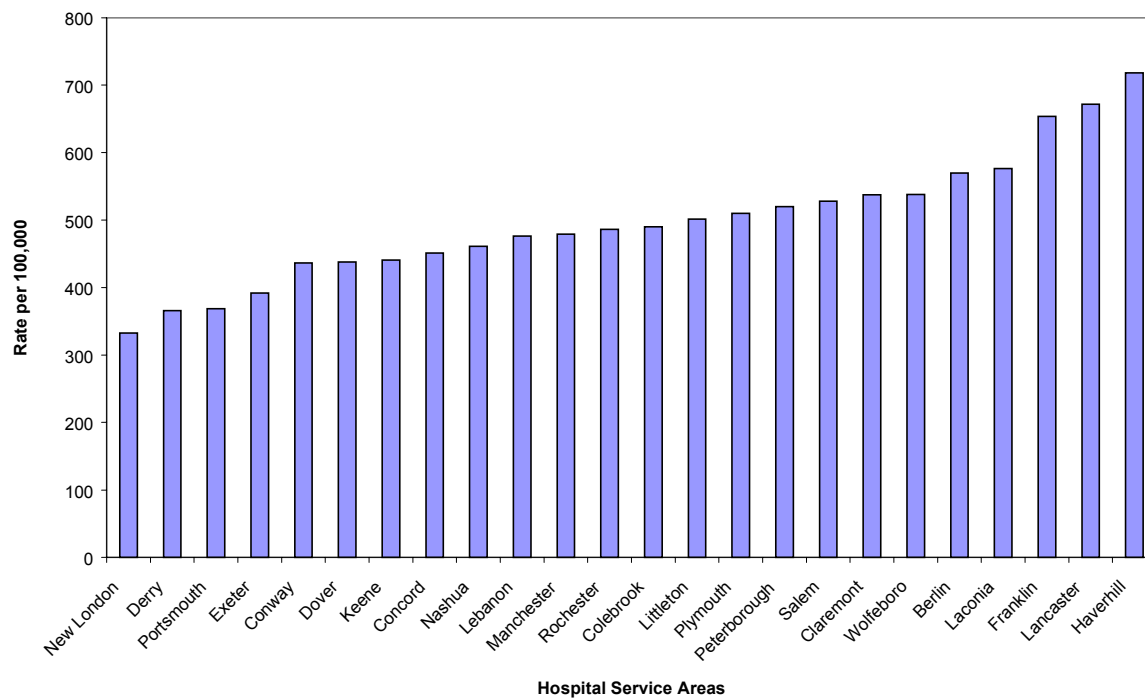


*Hospital Service Areas with less than 20 cases observed are reported as a null value.

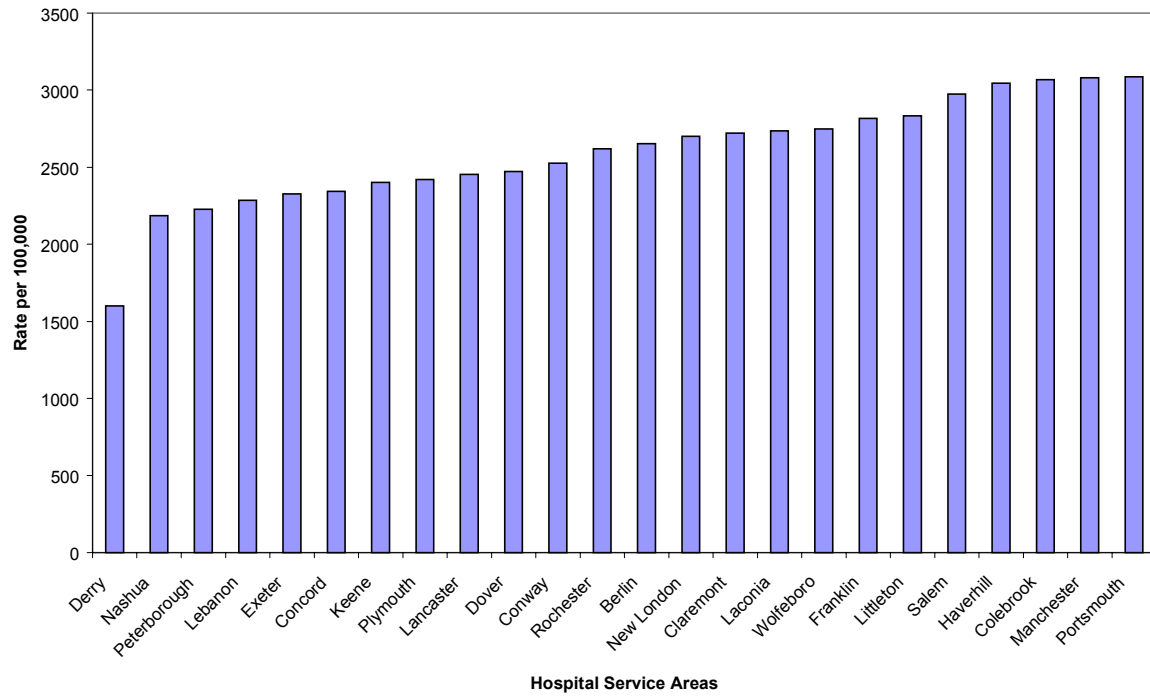
Ambulatory Care Sensitive Admissions among the Middle Aged (Age 45-64)



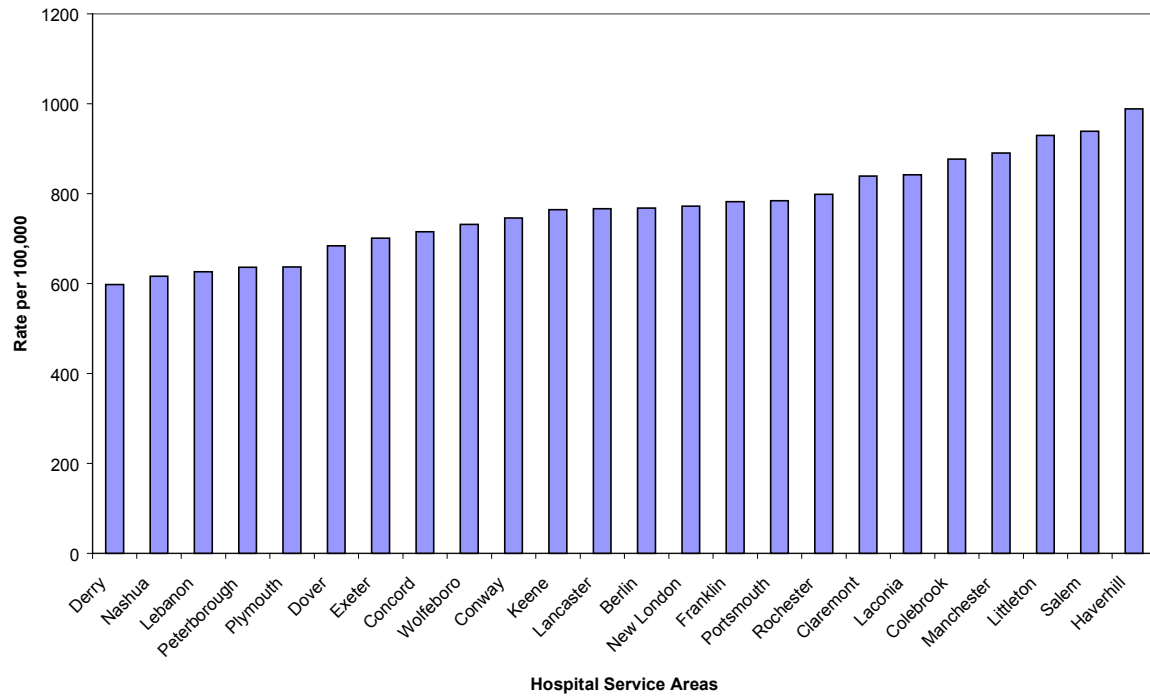
Marker Condition Admissions among the Middle Aged (Age 45-64)

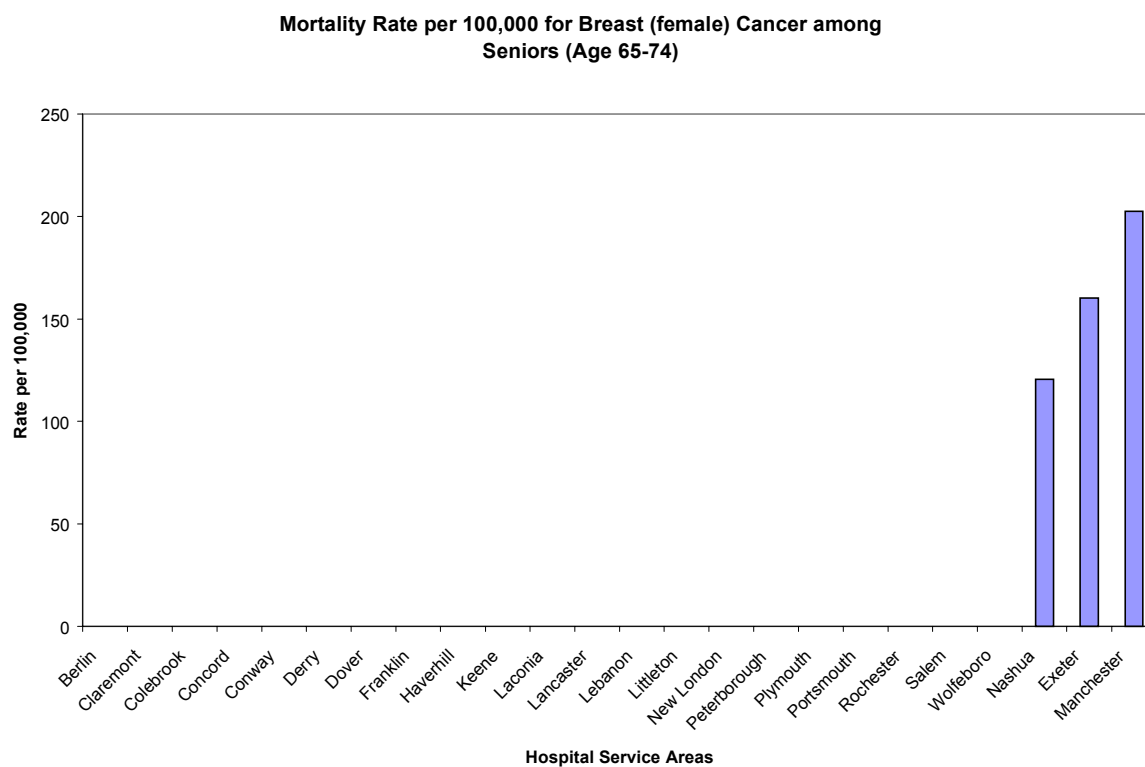
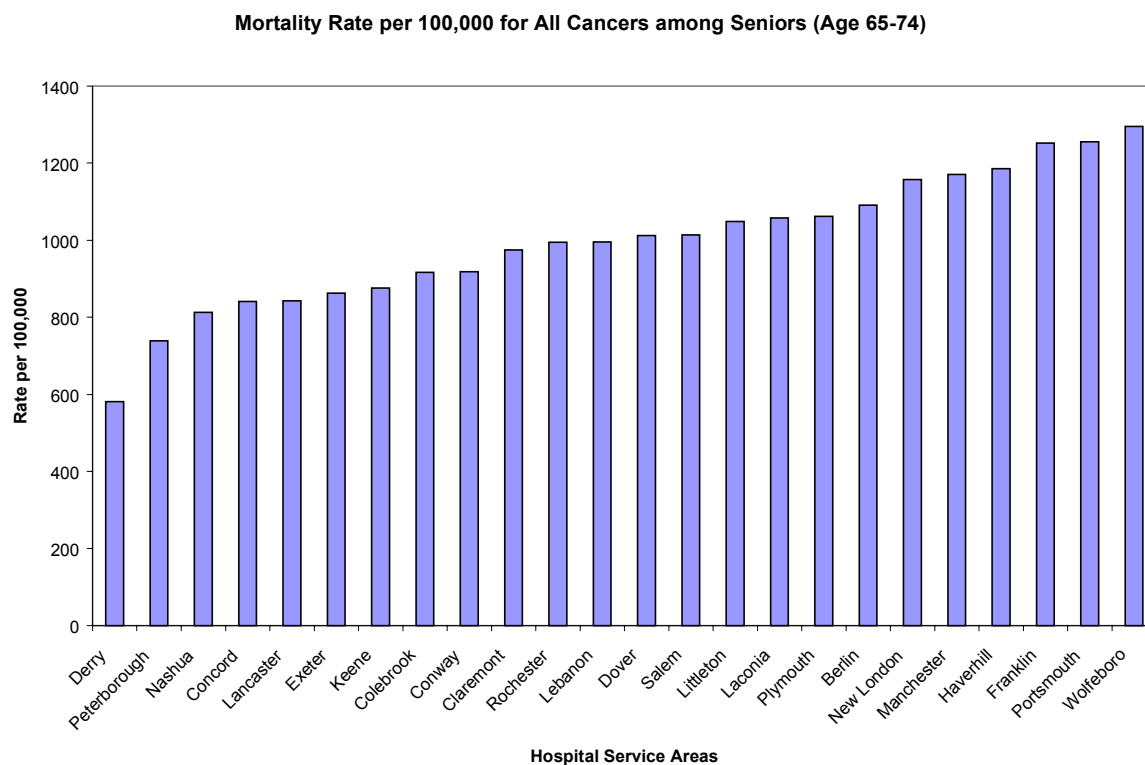


Mortality Rate per 100,000 for Internal Causes among Seniors (Age 65-74)



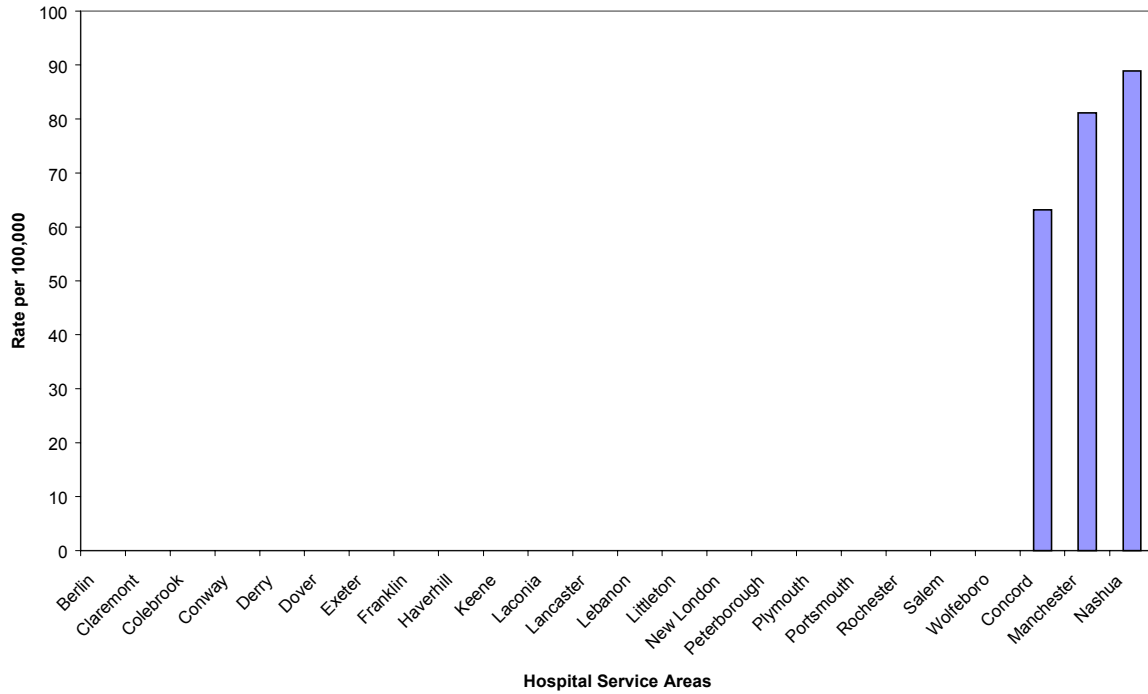
Mortality Rate per 100,000 for Heart Disease among Seniors (Age 65-74)



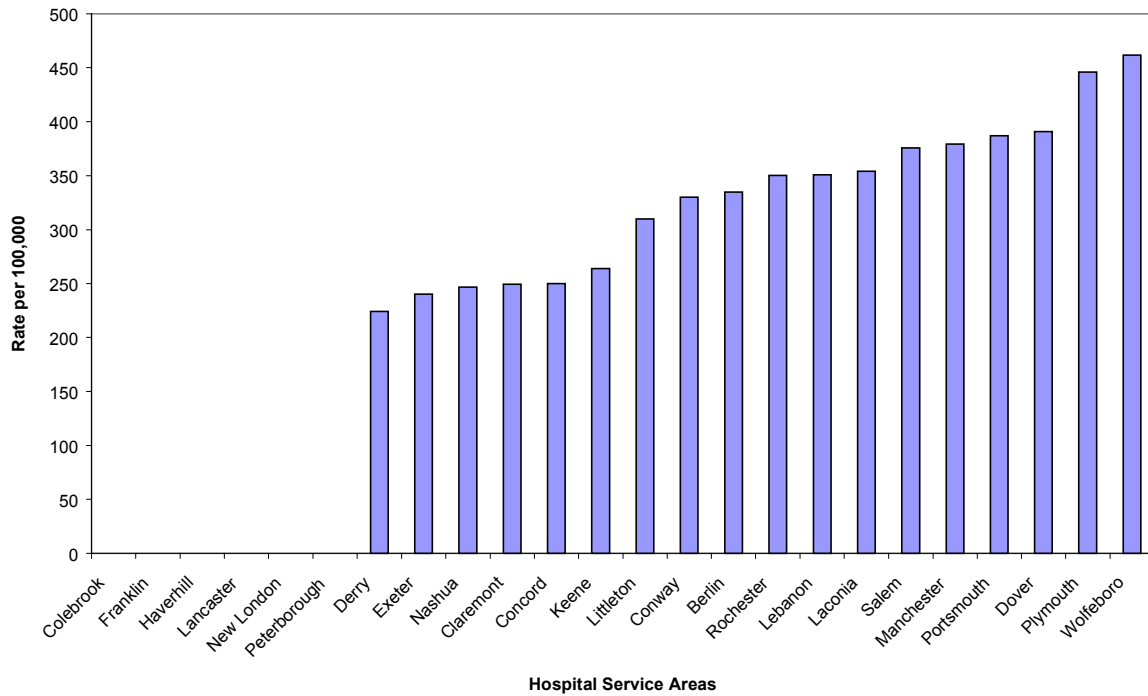


*Hospital Service Areas with less than 20 cases observed are reported as a null value.

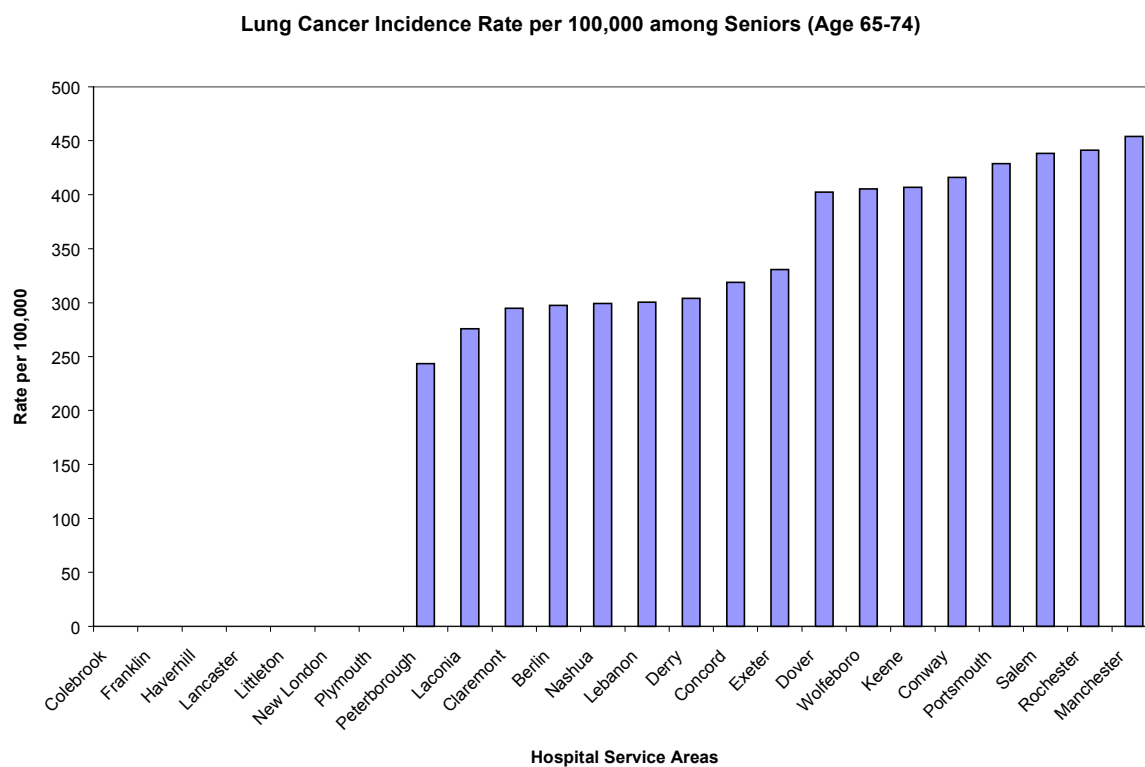
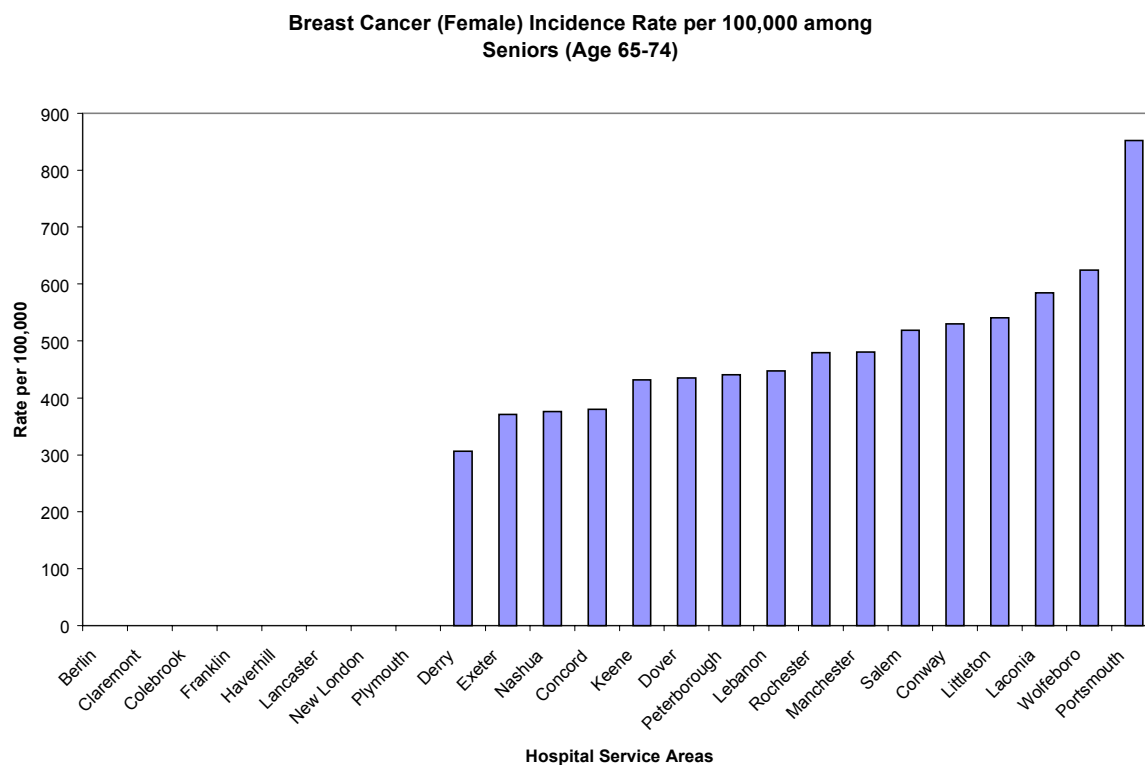
Mortality Rate per 100,000 for Colon Cancer among Seniors (Age 65-74)



Mortality Rate per 100,000 for Lung Cancer among Seniors (Age 65-74)

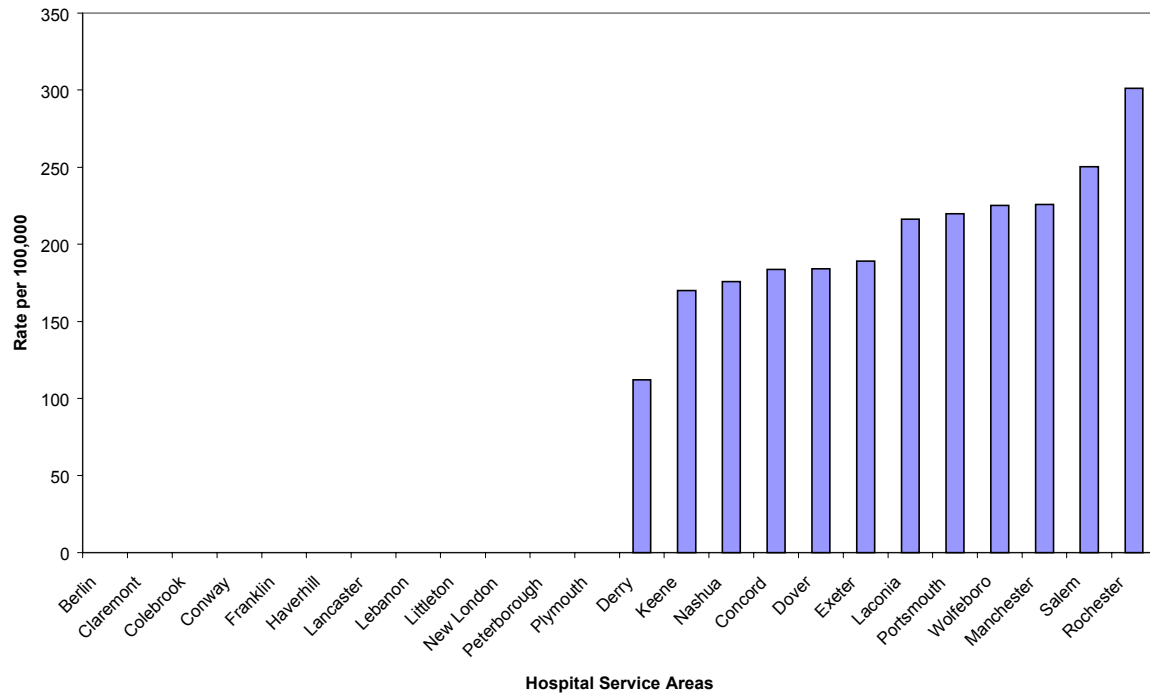


*Hospital Service Areas with less than 20 cases observed are reported as a null value.

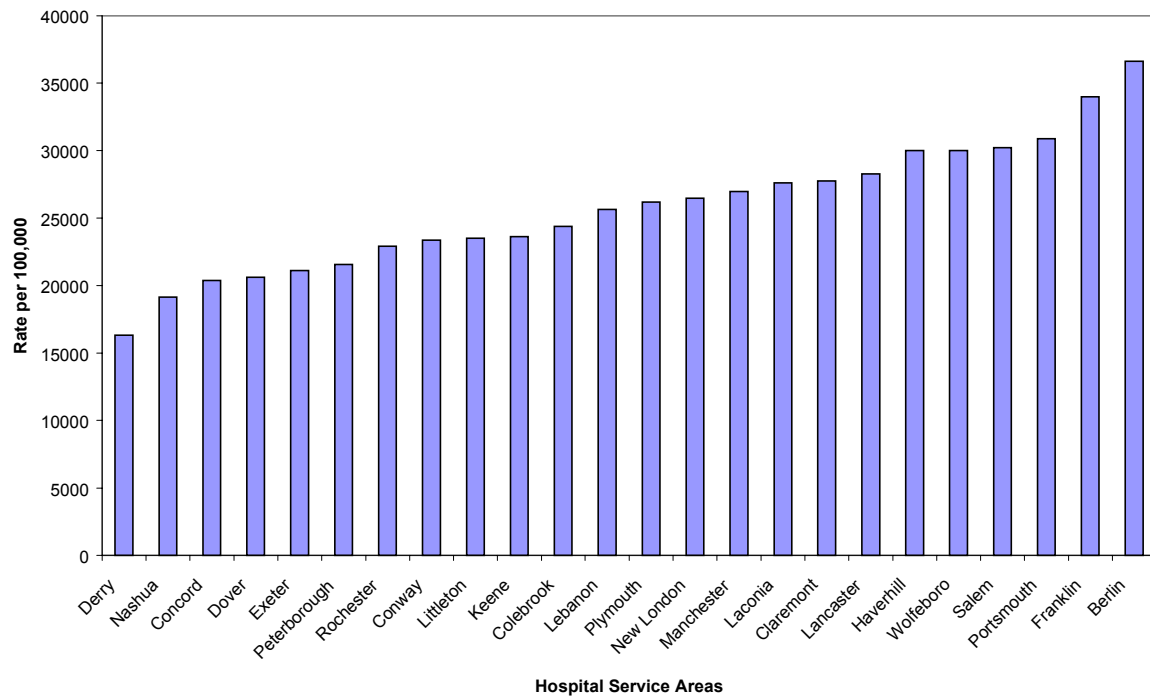


*Hospital Service Areas with less than 20 cases observed are reported as a null value.

Colon Cancer Incidence Rate per 100,000 among Seniors (Age 65-74)

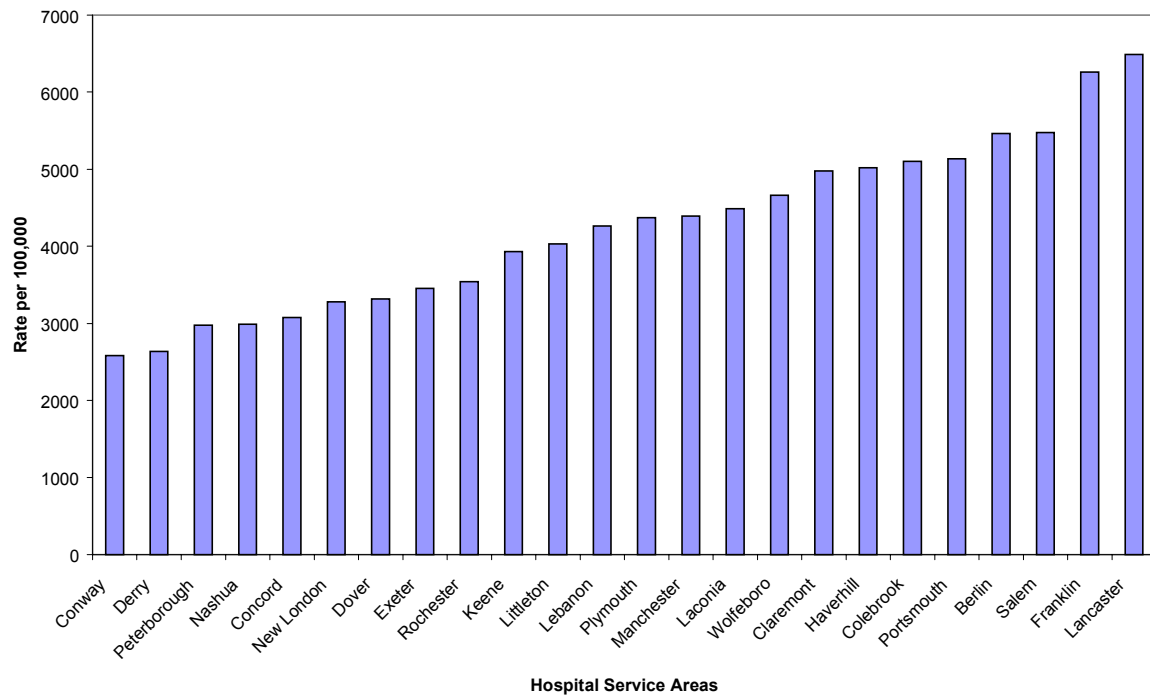


All Hospital Admissions among Seniors (Age 65-74)

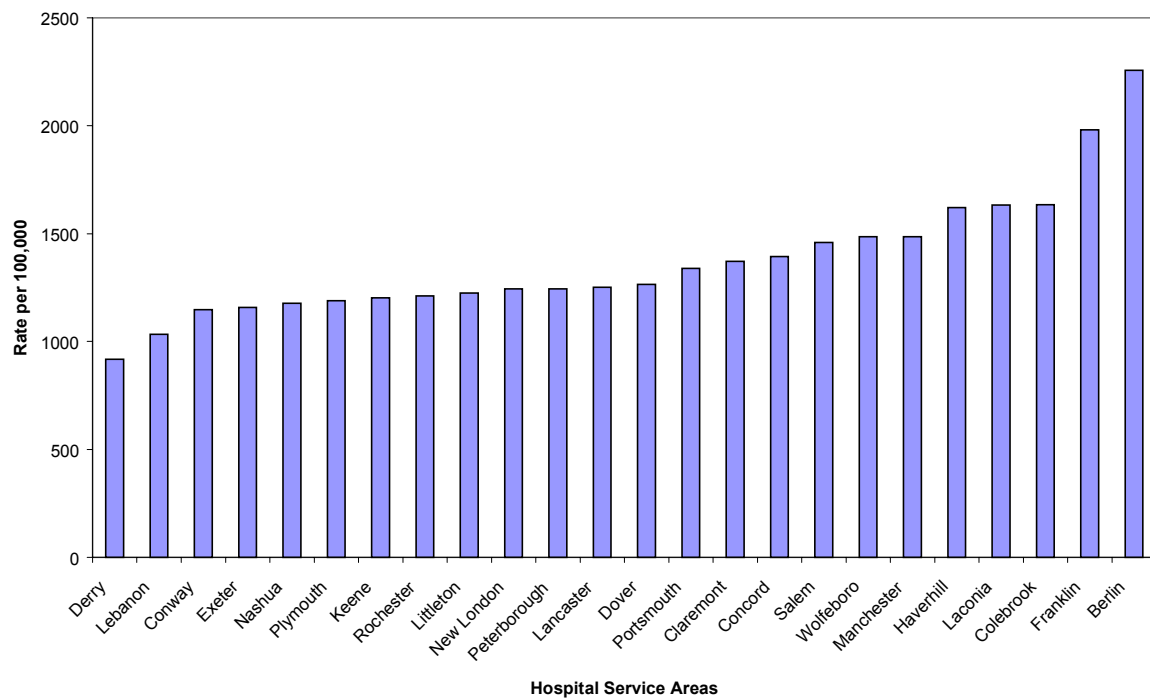


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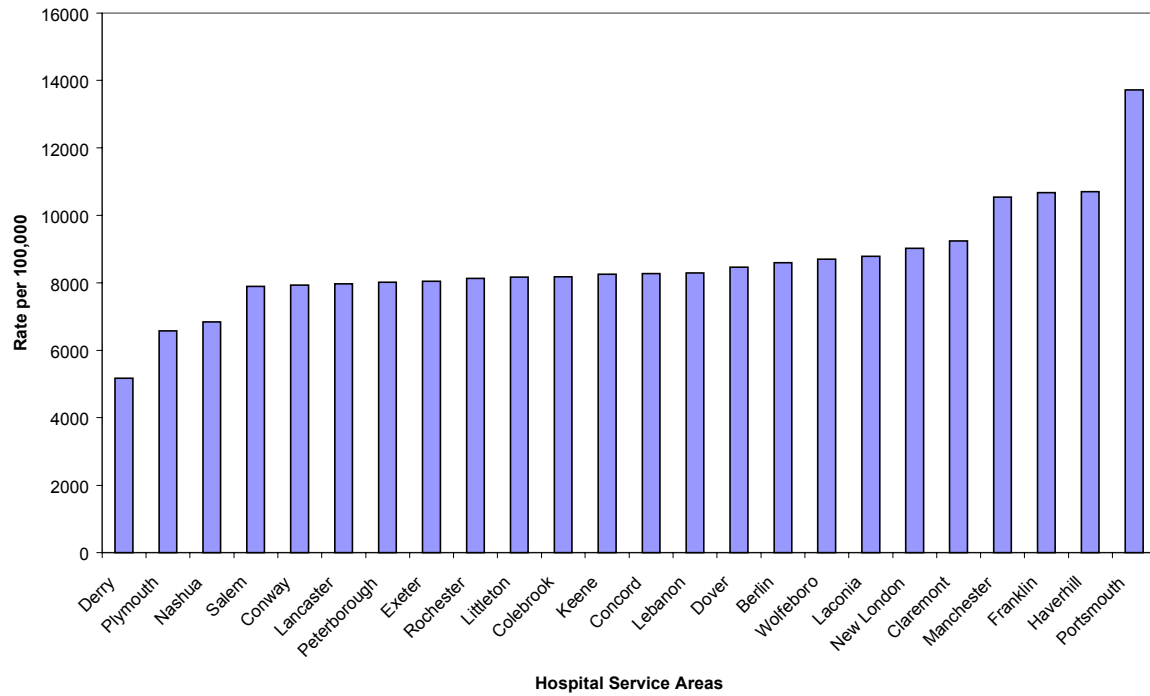
Ambulatory Care Sensitive Admissions among Seniors (Age 65-74)



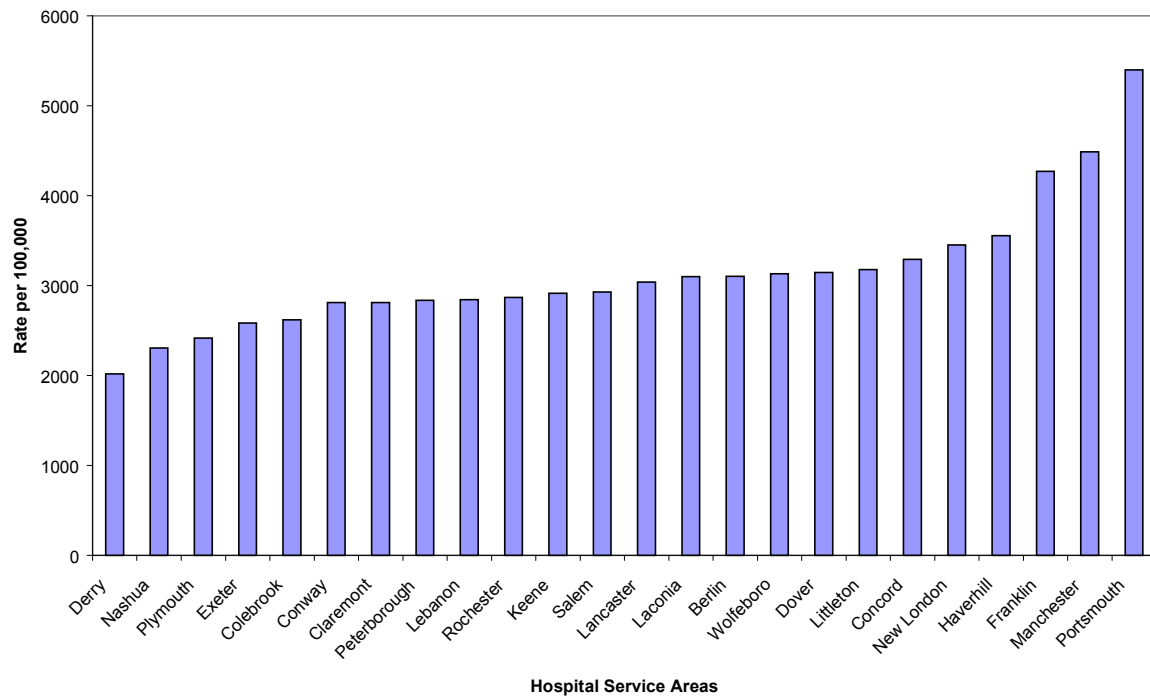
Marker Condition Admissions among Seniors (Age 65-74)



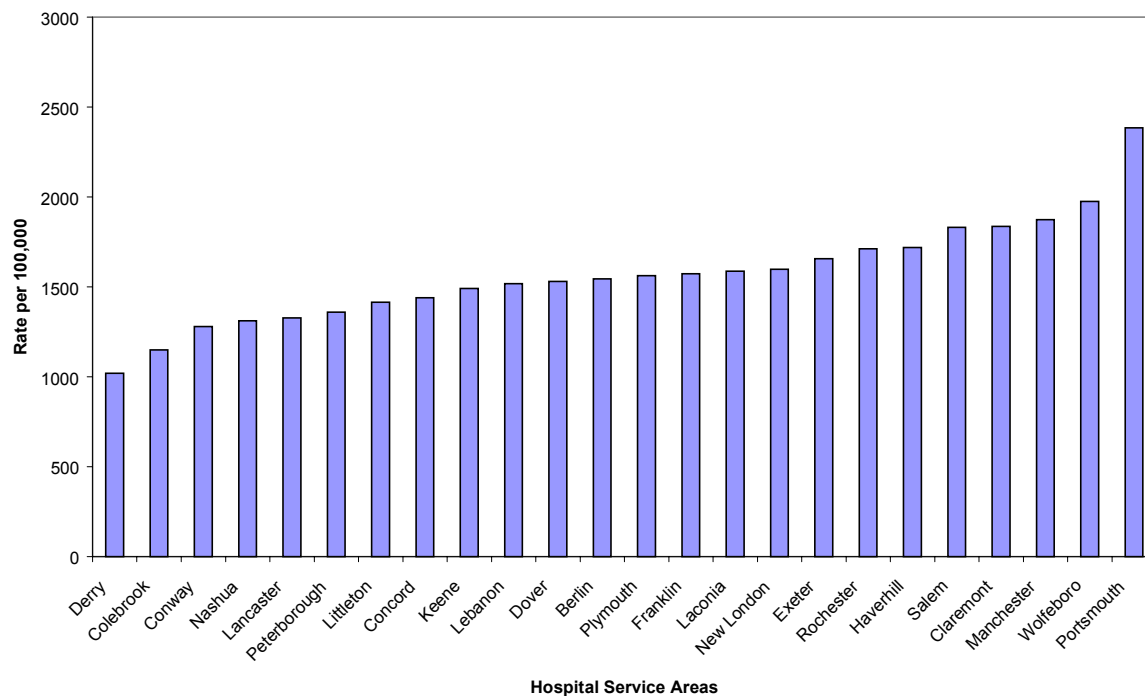
Mortality Rate per 100,000 for Internal Causes among the Elderly (Age 75+)



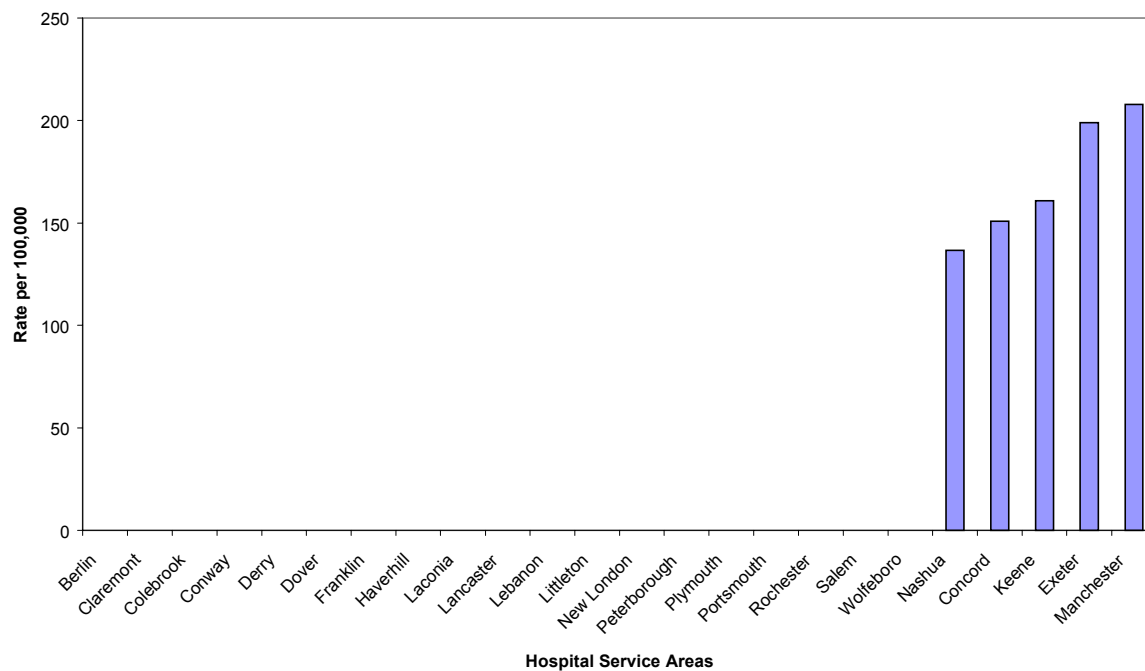
Mortality Rate per 100,000 for Heart Disease among the Elderly (Age 75+)



Mortality Rate per 100,000 for All Cancers among the Elderly (Age 75+)

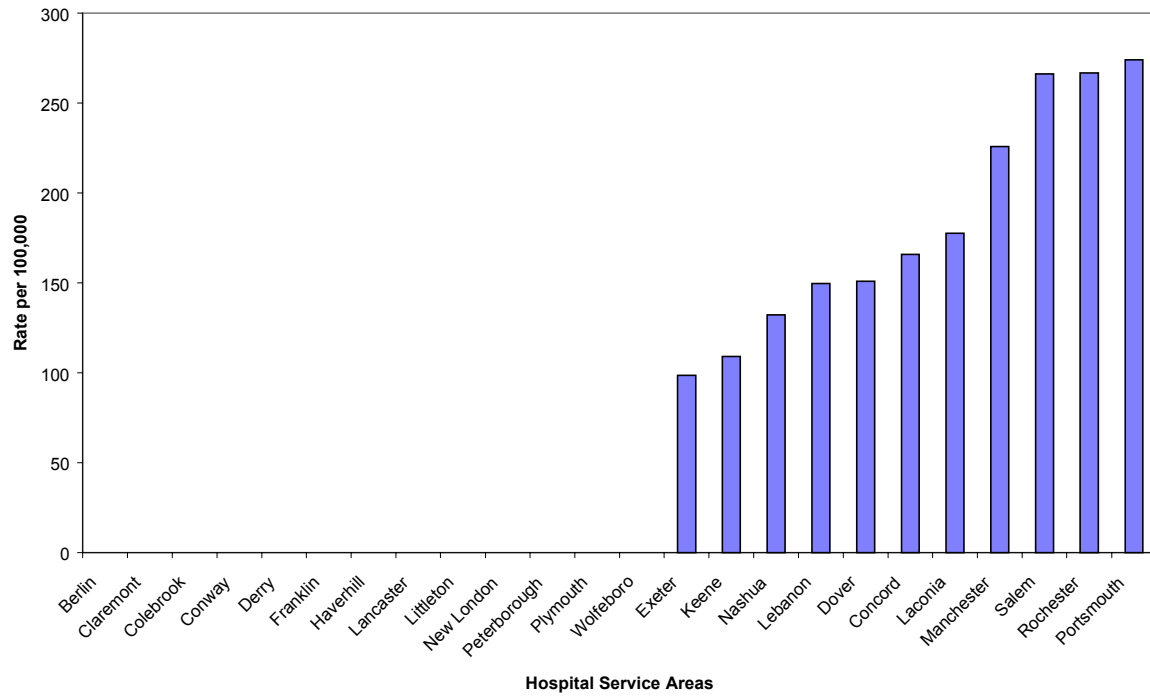


Mortality Rate per 100,000 for Breast (female) Cancer among the Elderly (Age 75+)

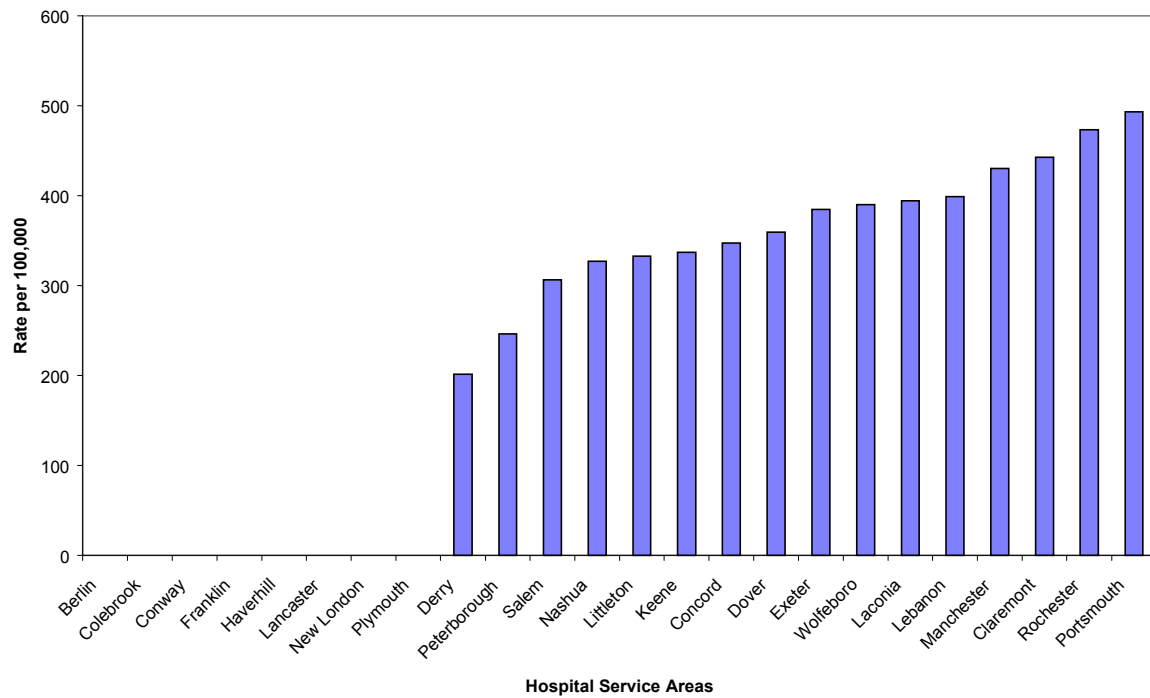


*Hospital Service Areas with less than 20 cases observed are reported as a null value.

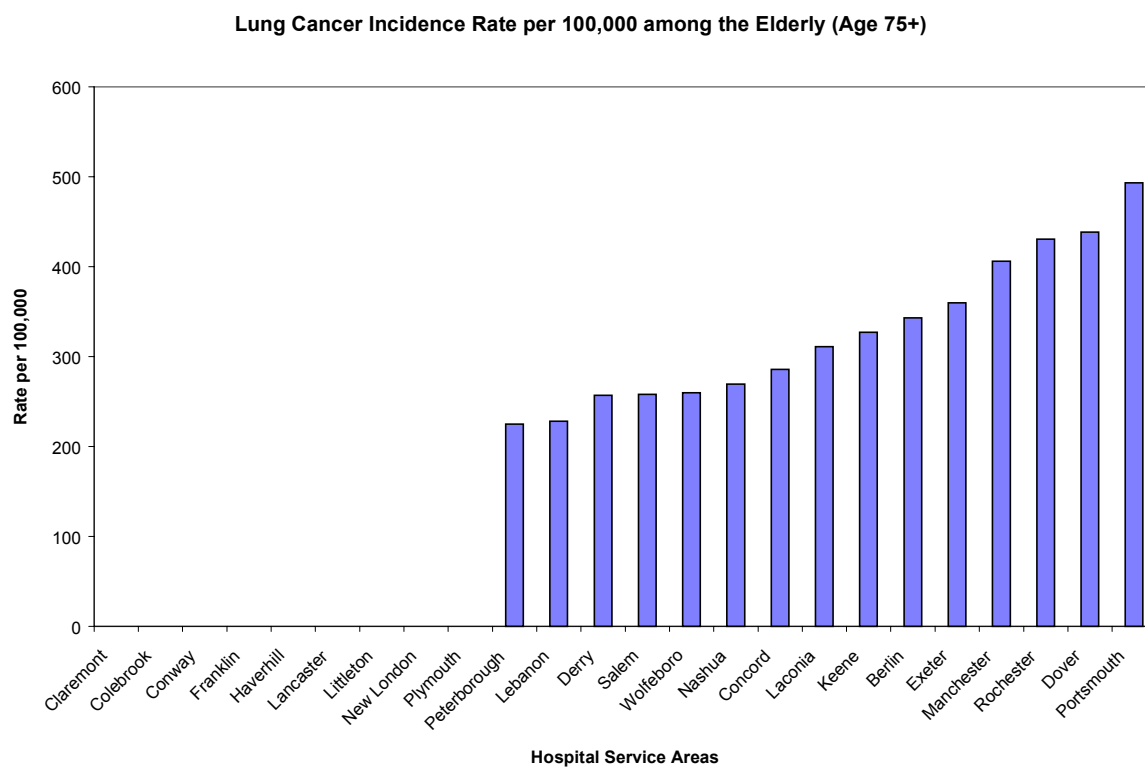
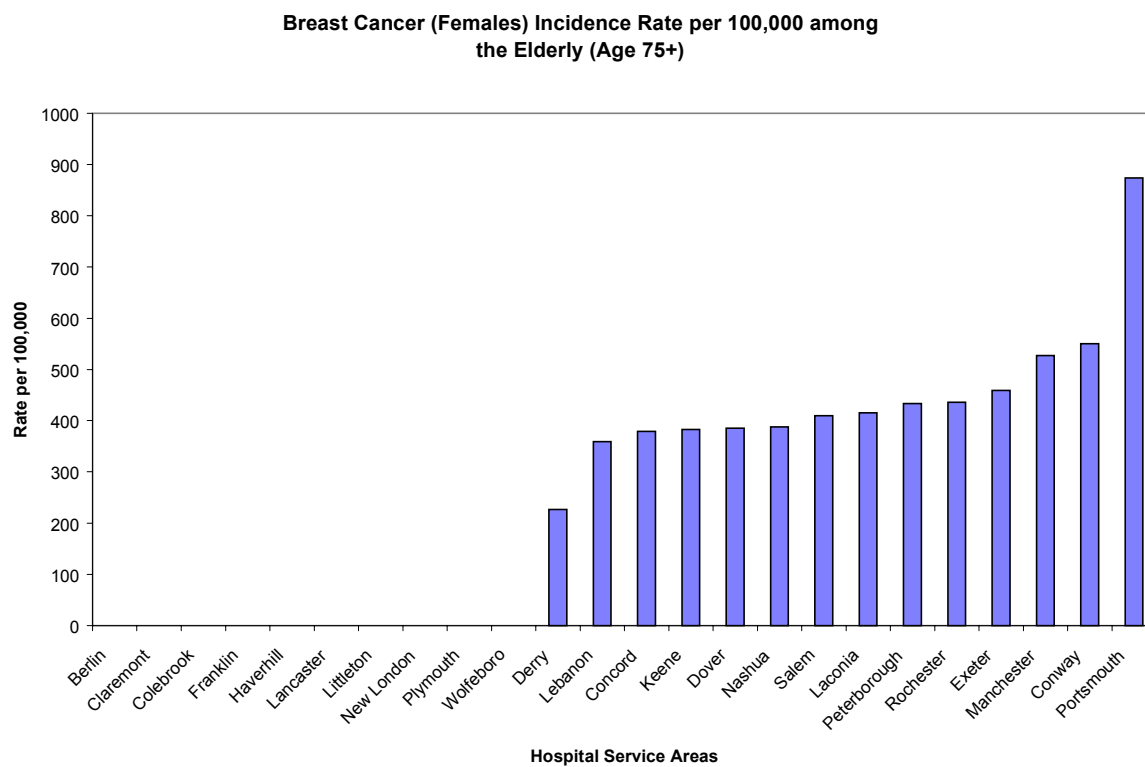
Mortality Rate per 100,000 for Colon Cancer among the Elderly (Age 75+)



Mortality Rate per 100,000 for Lung Cancer among the Elderly (Age 75+)

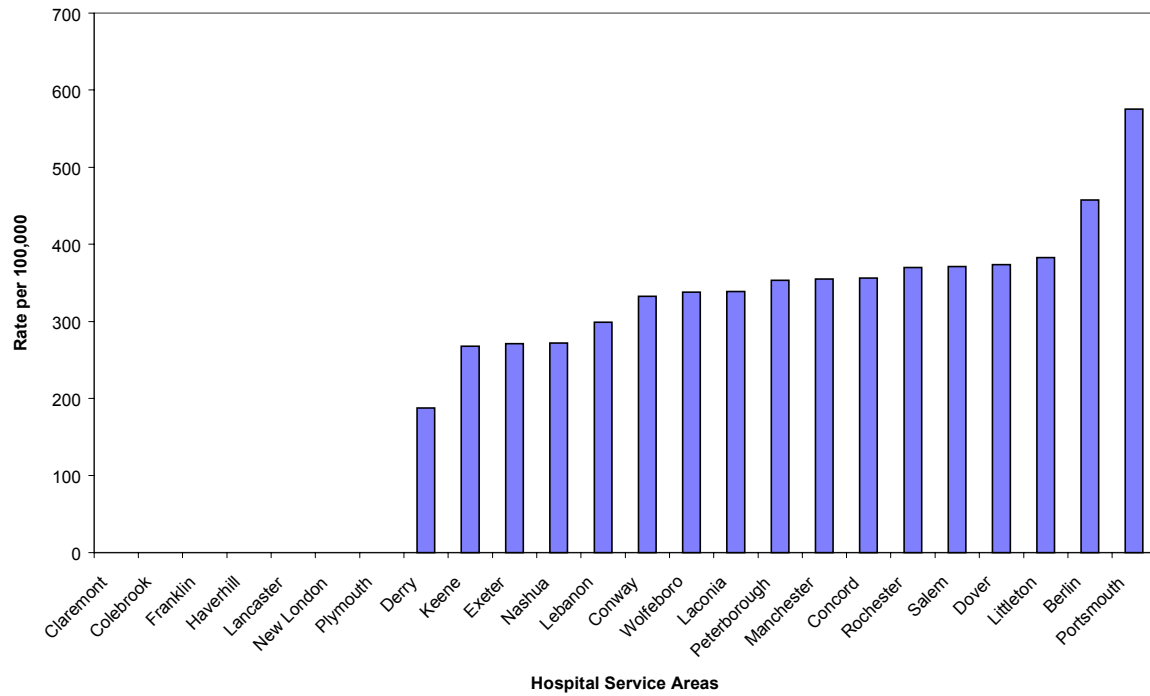


*Hospital Service Areas with less than 20 cases observed are reported as a null value.

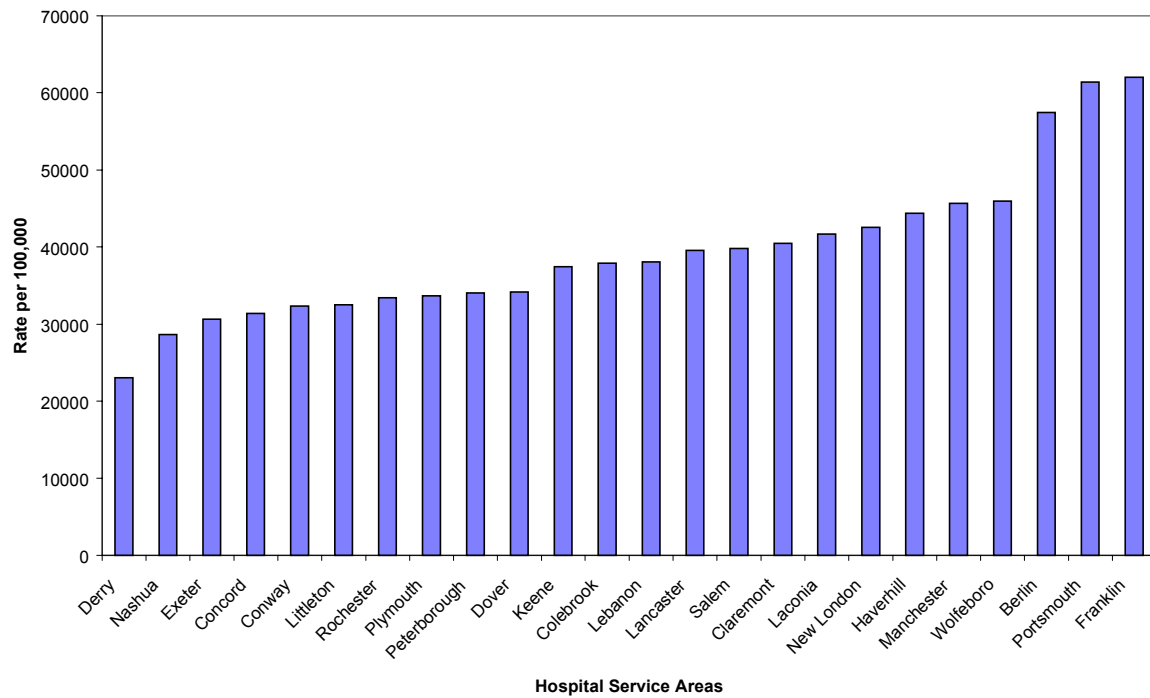


*Hospital Service Areas with less than 20 cases observed are reported as a null value.

Colon Cancer Incidence Rate per 100,000 among the Elderly (75+)

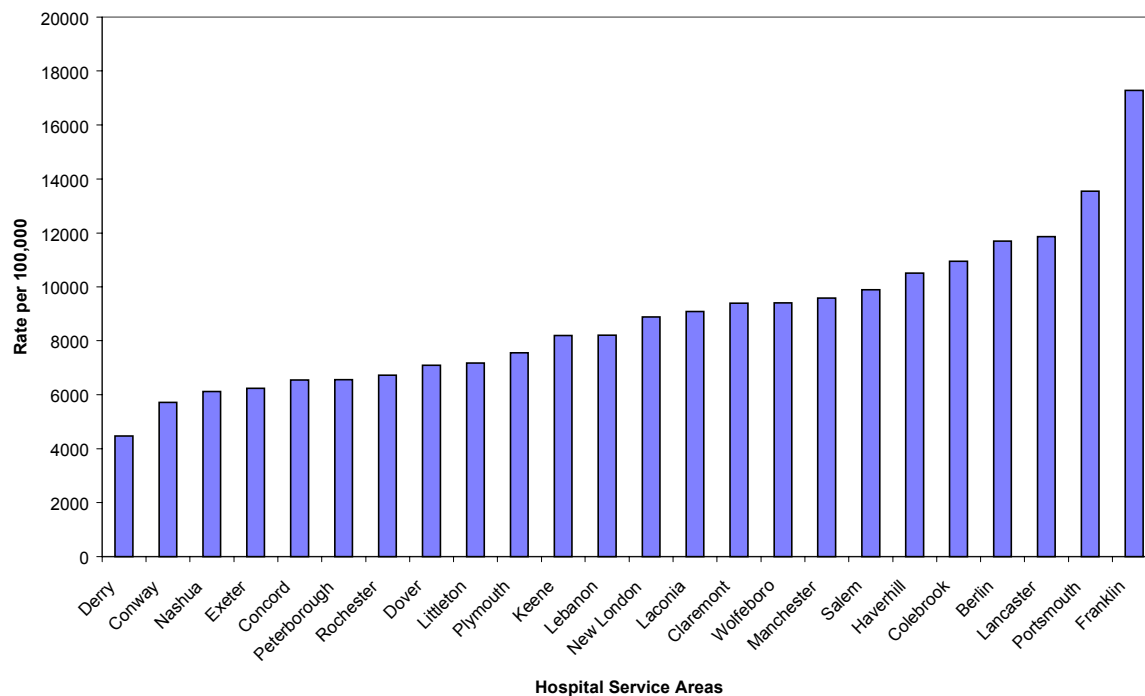


All Hospital Admissions among the Elderly (Age 75+)

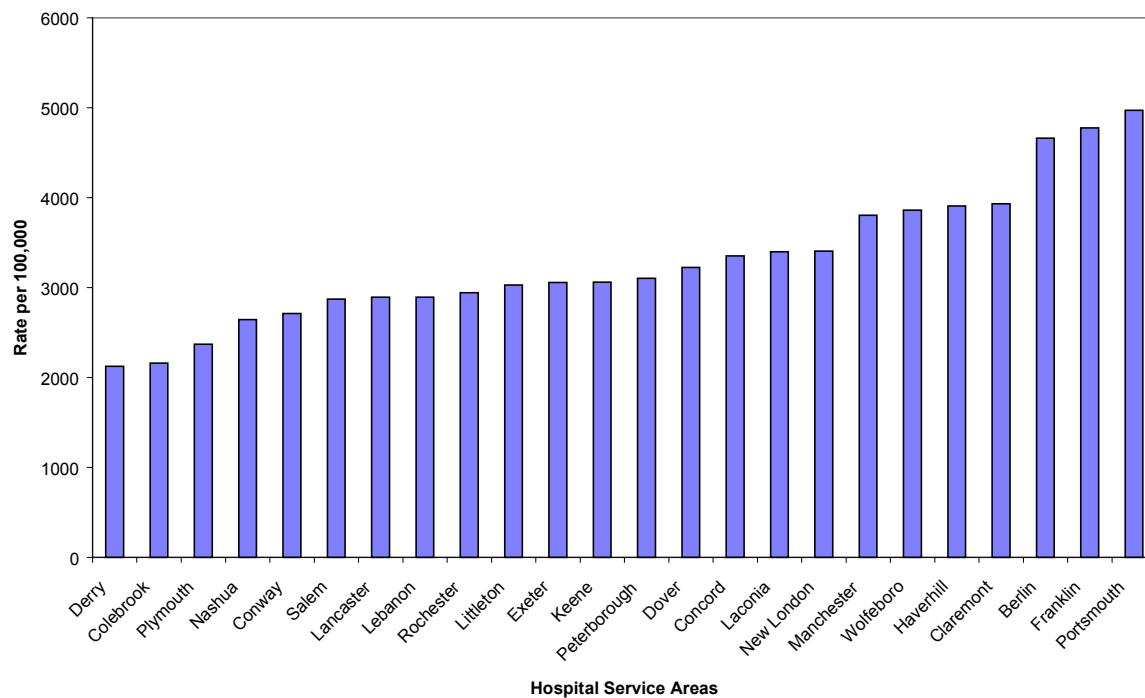


*Hospital Service Areas with less than 20 cases observed are reported as a null value.

Ambulatory Care Sensitive Admissions among the Elderly (75+)



Marker Condition Admissions among the Elderly (75+)



DISCUSSION

Statewide Analysis

The high level of data specificity in the report precludes a detailed discussion for each health indicator, thus a general discussion of the Statewide Analysis results was chosen for presentation.

A. United States Census Bureau Poverty Rates

In 1990, the poverty rate of New Hampshire children age 0-17 was 7.4%. Within that age group, younger children (age 0-5) had higher poverty rates than did those age 6-17, most notably when they were in female-headed households. The poverty rate of children age 0-5 in female-headed households (46.4%) was nearly twelve times higher than that of children in married-couple households (3.9%). The poverty rate increased to 11.1% in young adulthood (age 18-24) before declining to 4.4% among those age 25-44. The rate remained low at age 45-64 before increasing among the elderly to the highest poverty rate of any age group, 13.9% in those age 75+.

It is important to note that the presence of college students in a community artificially inflates the measurement of "true" poverty in an area. The United States Census Bureau categorizes most students living off campus as poor, although they are more likely to be from a middle class background and are in transition to adult middle class status compared to their non-student poor counterparts. (Students living in dormitories are excluded from poverty calculations).

Recent data from the United States Census Bureau illustrates New Hampshire as having the lowest overall poverty rate in the nation (6.9%, 1995). However, as illustrated in the accompanying Statewide Analysis, there is considerable diversity within the state by age and family structure. There is also strong evidence of an increase in poverty within the state in recent years, as indicated not only by the increase in the proportion of individuals receiving Medicaid, but also by a 7.8% increase in the poverty rate from 6.4% reported in the 1990 census. Recent information from the United States Census Bureau indicates that 7.5% of New Hampshire's children under age 18 lived in poverty in 1995 (again, the lowest in the nation). However, this rate is 8.7% higher than the overall rate, and slightly higher than the rate of 7.4% recorded in the 1990 census.

B. Unemployment Rate

The unemployment rate has been added to the current version of the Primary Care Access Data report as an additional intercensal indicator of statewide and community socioeconomic conditions. This value represents the midpoint 1995 annual average unemployment rate by community, as obtained from the New Hampshire Office of Employment Security. While trend analysis is not available for this one year time period, this indicator does provide an additional mechanism to assess the socioeconomic status of the communities.

C. Medicaid or Food Stamp Rates

The average Medicaid and Food Stamp caseload for July 1997 and 1998 represented 9.1% of New Hampshire children under age 19. The caseload of adults (greater than or equal to age 19) receiving Medicaid or Food Stamp assistance represented 2.1% of the adult population. Recent changes in the Medicaid reporting system have prevented a presentation of Medicaid or Food Stamp utilization for the 1993 - 1997 time period corresponding to the other data represented in this report. The methodology employed in this section averaged the July 1 unduplicated caseloads for two years, 1997 and 1998. The average percent was obtained by dividing the average caseloads by the 1995 population for the appropriate age group. Although the time period for this rate extends slightly beyond the time period studied in the majority of this report, these rates support the trends discussed in the poverty section, and in previous reports of increased rates of people in high socioeconomic risk groups, especially children. It is important to note that this increase may be attributable to changes in the eligibility criteria for the Medicaid program during this reporting time period.

D. Education Rates

This indicator attempts to support the relationship between level of education and socioeconomic risk. There are fluctuations in these rates over the five year time period. However, analysis by age provides some interesting observations. For example, the proportion of those dying who possess less than a high school education increases with age. This should not be interpreted as relating lack of education with long life. The data is stratified by three age groups to control for any potential changes in overall education levels that may have occurred over time. While slightly less than 30% of those individuals in the 65+ death cohort obtained less than a high school education, this proportion is decreased by half when studying the 25-44 year old death cohort. In each of the three age groups, males who died during the five-year study period possessed a higher proportion of low education than females who died during that same time period. This difference may be due to the higher level of injury-related mortality among high-risk males.

When focusing on maternal level of education, a different picture emerges. For example, even when excluding ages ineligible for a high school diploma, young mothers have a rate of low education nearly six times higher than older mothers. This result tends to illustrate that women age 25 and older who have babies are more highly educated than their younger counterparts. Caution should be taken when comparing these rates to the previous report, as the age categories have changed in an effort to permit groups large enough for HSA level analysis.

E. Infants (Age less than 1 year)

As with poverty rates, New Hampshire consistently ranks among the best in the United States in rates associated with maternal and infant well being. For the third consecutive year, New Hampshire was named the most desirable place in the nation to raise children by the national *Kids Count Data Book*. This assessment is based, in part, on New Hampshire having the nation's best rates of low birthweight babies, teen births, infant mortality, and children living in poverty.

New Hampshire's infant mortality rate has dropped to its lowest point in history. Dissection of the overall infant mortality rate, by its components, reveals that New Hampshire's infant mortality rate has exhibited a steady and significant long-term decline. This has been due to improved survival of both low and normal birthweight infants; although low birthweight babies maintain a mortality rate 23.8 times higher than normal birthweight babies. One risk behavior exhibiting a long term notable improvement has been maternal smoking, which had continued its declining trend from 18.4% in 1993 to 16.4% in 1996, before increasing slightly to 17.4% in 1997. Exhibiting the opposite trend is the percent of births to unmarried mothers, which increased from 20.6% in 1993 to 23.8% in 1997. In addition, the proportion of births to teen mothers has reversed what had been a previous long-term decrease and now has exhibited a 14.7% increase over the past five years. Many of the birth indicators have remained relatively stable during the time period studied, including the proportion of Medicaid births at 20.7%, inadequate prenatal care at 1.7%, less than a high school education at 10.9%; and, the proportion of low birthweight births has fluctuated around 5.2%. It is of interest to note that the proportion of births to teen mothers, low education, low birthweight births, and maternal smoking all increased slightly in the most recent year.

F. Children (Age 1 to 14 years)

Health Status

General Mortality: Childhood deaths are relatively rare and many are preventable. There were 211 deaths to New Hampshire children age 1-14 from 1993 to 1997, thus resulting in an average annual rate of 18.4 deaths per 100,000 population. The death rate from internal causes (illness) is 75.4% higher than the injury death rate (11.4/100,000 *versus* 6.5/100,000). Male child death rates are only slightly higher than those of females for illness, but are 36.4% higher for injury. There are no discernible trends in child mortality rates, though the annual number of events is too small to permit reliable analyses of rates beyond all causes and internal causes of mortality.

Health Care Utilization

Inpatient Hospitalization: Male hospitalization rates in this age group are higher in each of the three diagnosis categories in this analysis. Male child injury hospitalizations are 56.4% higher than female rates. ACS discharges are 8.8% higher among male than female children, while marker conditions are 28.9% higher.

Trend analyses illustrate a 19.1% decline in hospitalizations from 1993 to 1997, with no differentiation by type of admission.

G. Adolescents (Age 15 to 17 years)

Health Status

General Mortality: The overall death rate of New Hampshire adolescents is more than double (2.3 times) that of children age 1-14. The death rate increase is mostly due to higher rates of motor vehicle and other injury-related mortality. The death rate from internal causes is actually slightly lower for this age group than for younger children, but the rate of injury deaths is five times greater (32.2/100,000 *versus* 6.5/100,000). Injury deaths

represent 74.7% of all deaths in this age group, with motor vehicle crashes responsible for over one-half (52.8%) of these. This corresponds to the younger group, where 35.3% of all deaths were the result of an injury and 35.4% of those were motor vehicle-related. Violence kills adolescents at a rate greater than deaths due to illnesses, with suicide and firearm mortality rates just slightly lower. Firearms cause more than seven out of ten (72.2%) violent adolescent deaths.

The overall adolescent death rate for males is nearly double (1.9 times) that for females. This result is most likely due to an injury mortality rate that is 78.7% higher among males, as compared to females. Both intentional deaths and unintentional deaths (due mainly to motor vehicle crashes) appear to be male-dominated, even in this relatively young age group.

As in the child mortality section, the annual number of events is too small to permit reliable trend analyses of adolescent mortality.

Health Care Utilization

Inpatient Hospitalization: Adolescents have hospital admission rates for ACS conditions that are 27.7% lower as compared to children age 1-14; but, they have rates of hospitalization for marker conditions 61.0% higher, and injury admission rates 2.7 times higher. The age difference in hospitalizations for injuries and marker conditions is consistent for both males and females. Three out of every ten (29.0%) hospitalizations for adolescent males are the result of injuries. The increase in injury hospitalizations from childhood to adolescence, however, is greater for females than for males, as the difference in the rates between males and females drops to 8.5%. ACS conditions are higher for the female population (by 22.5%) in this age group. Trend analysis illustrates significant decreases in both injury and ACS hospitalizations of more than 15% in recent years (18.5% and 20.4% respectively). Marker condition rates have fluctuated between 1993 and 1997, but are also 16.0% lower than they were five years ago.

Although a slight decline occurred in the most recent year, obstetrical rates have increased 13.6% during the five year analysis period, as obstetrical admissions account for 31.6% of hospital admissions for adolescent females.

Adolescent Births

New Hampshire's adolescent birth rate (14.4/1,000 females age 15-17) is the lowest in the nation. However, it is concerning that the adolescent birth rate, which had been declining through the early 1990s, has increased 11.9% since 1993. This increase is in contrast to the continuing decrease in birth rates observed in the other age groups. Adolescent mothers also exhibit the highest risks among the three age groups analyzed for all birth-related risks. For example, the majority of these mothers are not married; a trend that is increasing among all age groups to a point where in 1997, 95.9% of adolescent mothers were unmarried. In addition, most adolescent mothers have not obtained a high school education; more than half (53.3%) of all adolescent mothers rely on Medicaid for payment of prenatal care or delivery; 35.0% of these mothers smoke; and, 6.1% of them initiate prenatal care in the late stages of pregnancy. One outcome linked to these high risk pregnancies is that 8.7% of the babies born to adolescent mothers are born below a desirable birth-weight, a proportion that is 52.6% higher than the next older age-group.

H. Young Adult (Age 18 to 24 years)

Health Status

General Mortality: The overall death rate of 18-24 year-olds (53.8/100,000) does not increase significantly above the adolescent rate; it is only 24.8% higher than the corresponding 15-17 year old death rate (43.1/100,000). The death rate increase from adolescence to young adulthood is due to modest increases across the spectrum of male injury deaths. The death rate due to internal (disease) causes remains relatively constant across the child, adolescence, and young adult age groups; although males in this age group are nearly twice as likely (1.8 times) as females to die from internal causes. Nearly eight out of every ten (79.0%) young adult deaths are the result of an injury. Male-dominated motor vehicle crashes and acts of violence are major factors in this age group and are responsible for nearly seven out of ten (69.0%) deaths. The death rate due to young adult suicide exceeds the rate of death for all internal causes combined, while the overall firearm death rate is just slightly less.

The risk of death for young adult men is 3.3 times that for young adult women, with especially large risk differences observed in injury deaths. The male injury death rate (67.1/100,000) is four times that of females (16.6/100,000), while the male motor vehicle death rate is 3.1 times higher.

In recent years, there have been broad fluctuations in all categories of young adult mortality, thus resulting in no apparent trends.

Health Care Utilization

Inpatient Hospitalization: Hospitalization rates vary widely in this age group by gender and year. One interesting comparison with the younger age group is that injury hospital admission rates are lower, whereas injury mortality rates are higher. While male injury hospitalization rates remain relatively stable between the two age groups, the comparable female rate decreases by 40.4%. The injury hospitalization rate of males is 62.6% higher than that of females, and similar to adolescents, represents 28.0% of male hospitalizations in this age group. This is consistent with the broad male-female difference in injury mortality discussed above.

ACS conditions exhibit the opposite pattern, with the female rate being 71.8% higher than that of males. The male marker condition rate is approximately 30.8% higher than the female rate. Obstetrical conditions are responsible for 64.3% of the hospitalizations for young women; double the proportion in the younger age group.

The overall hospital admission rate has decreased 15.2% over the past five years. In addition, each of the component rates has been declining, lead by injury admissions, which have declined 26.1% and ACS admissions, which have declined 16.6% in recent years.

Births to Mothers Age 18-24

The overall young adult birth rate of 62.5/1,000 females is 4.3 times higher than the comparable adolescent rate. All of the risk indicators are lower than those observed for adolescents; with low education, and late prenatal care rates cut by more than half (73.9% and 50.8%, respectively). The proportion of low birthweight births has declined 34.5%. The young adult birth rate has tended to decline 9.5% in recent years, accompanied by a steady 14.2% increase in births to unmarried mothers from 47.2% in 1993, to 53.9% in 1997. The

proportion of young adult mothers obtaining adequate prenatal care appears to have improved slightly, continuing a long term trend. The proportion of mothers with education levels below 12 years has fluctuated around 24.0%, while the proportion covered by Medicaid has fluctuated around 46.7%.

1. Adults (Age 25 to 44 years)

Health Status

General Mortality: The overall mortality rate of New Hampshire residents age 25-44 for the 1993-1997 period is 113.6/100,000. This is more than double (2.1 times) the corresponding death rate for 18-24 year olds. This overall mortality rate difference includes a death rate from internal causes that is 6.5 times higher than in the 18-24 year-olds, while maintaining a similar overall injury death rate. However, the motor vehicle crash death rate has nearly been cut in half (47.6%), as has the proportion of all deaths due to injuries. The cancer mortality rate in the adult age group is more than double (2.3 times), and the heart disease mortality rate is 31.8% higher than the young adult mortality rate for all internal causes combined.

The male death rate for internal causes in the 25-44 age group is 55.5% higher than the corresponding female death rate. The male death rate is led by heart disease mortality, which is 3.8 times higher than the rate for females. There is also an excess of injury deaths, with the male rate being 3.6 times that of females. The excess in male injury deaths is attributable to differences in total unintentional, motor vehicle, total intentional, suicide, and firearm rates which are at least three times higher (3.8, 3.3, 3.0, 3.4, and 3.9, respectively) than the comparable female rates. Subtracting motor vehicle from the total unintentional death rates provides a “non-motor vehicle unintentional injury death rate” which is 4.7 times higher for males than females in this age group.

Although the annual rates fluctuated, there are some apparent trends. Overall mortality appears to have declined 8.2% while heart disease mortality declined 16.2%. Total intentional deaths have declined 9.8% with firearm deaths decreasing 19.4%. An interesting trend in the opposite direction is the apparent 42.7% increase in mortality due to motor vehicle accidents.

Diabetes-Related Mortality: Deaths from diabetes or diabetes-related conditions are relatively rare in the 25 to 44 year age group (4.3/100,000). The diabetes-related mortality rate was responsible for 3.8% of the deaths, and was slightly less than the rate of colon and lung cancer deaths combined. Despite the overall low risk of diabetes-related mortality, the pattern seen here is characteristic at every age level, with male gender associated with higher risk of death. The male rate of diabetes-related mortality was double the rate for females in the adult age group.

Cancer Incidence and Mortality by Site: Cancer begins to have a significant impact on health in the 25-44 year old age group. Breast cancer strikes one out of every 1,776 women annually in this age group. However, the incident rate appears to have decreased 16.1% over the five year time period studied. Cervical cancer, which occurs once in every 8,130 women annually, appears to have experienced a 35.1% decrease in the incidence rate between 1993 and 1997 in this age group. Although colon cancer is 44.8% more common among males than females, lung cancer is 30.4% more predominant in females. Cancer deaths also begin to have a significant impact in this age group; responsible for slightly

more than one out of every five (21.8%) deaths. The overall female cancer mortality rate is 20.9% higher than the male rate. This is due to the female breast cancer mortality rate of 7.9/100,000 women, and a female lung cancer mortality rate that now exceeds the male rate by 12.5% in this age group. The lung cancer mortality: incidence ratio is 64.2%, while the corresponding ratio for colon cancer is 30.6%, and breast cancer is 14.0%. Deaths from cervical cancer occur too infrequently to permit an accurate rate calculation, but would result in a ratio of less than 20% in the 25-44 year old age group.

Health Care Utilization

Inpatient Hospitalization: Comparison of 25-44 year old hospitalization rates with those of 18-24 year olds illustrate an overall 34.5% increase in hospital admission rates, with slightly smaller increases in the component rates for ACS conditions, marker conditions, and injury admissions. The rate of obstetric admissions declines between the two age groups, and is now responsible for 51.0% of hospital admissions for women in this age group. Within the 25-44 year olds, the ACS rate among women is now only 37.7% higher than the male rate. In the case of injuries and marker conditions, the male rates are 47.4% and 51.5% higher, respectively, than the corresponding female rates in the adult age group. Injuries are responsible for only 16.1% of male hospital admissions in this age group.

With the exception of ACS rates, which have been fluctuating, adult hospital admission rates appear to have been declining in recent years. While the overall hospital admission rate has declined 6.8% in the adult age group, marker conditions have declined 8.0%, injury admissions declined 14.7%, and obstetrical admissions declined 4.5% between 1993 and 1997.

Births to Mothers Age 25-44

The birth rate of women age 25-44 (58.8/1,000 females) is 5.9% lower than that of 18-24 year olds. The rate has shown a 7.4% decline over the past five years. Rates of pregnancy risks and adverse outcomes are much lower among 25-44 year olds than among those in the two younger age groups examined above. The proportion of low birthweight births declined by 14.0% between the young adult and adult age groups. All risk factors are, at a minimum, cut in half. Maternal smoking decreased 56.7%; inadequate prenatal care decreased by nearly two-thirds (63.3%); and low education level, nonmarital births, and Medicaid payment were cut to less than one-quarter of the rate (17.1%, 20.5%, and 23.3%, respectively) observed in the younger age group. There has been a 9.3% decline in recent years in maternal smoking. As observed in the younger age groups, the percent of births to unmarried mothers has increased 18.8% in the adult group over the past five years. With the exception of a one year decrease, the proportion of low birthweight births has increased 21.7% between 1993 and 1997. With slight fluctuations, there has also been a slight improvement in maternal education, as well as an increase in Medicaid payment. There has been no change noted in the level of prenatal care obtained by older mothers, which has hovered around 1.1% since 1993.

J. Middle Age (Age 45 to 64 years)

Health Status

General Mortality: The overall death rate of 45-64 year olds is 5.2 times that of 25-44 year olds. The difference between these age groups is most likely due to a nearly eight-

fold (7.9) higher death rate from internal causes. Deaths due to heart disease have increased by a factor of 10.5 with a mortality rate now higher than the overall mortality rate for the younger group. Deaths from heart disease and cancer combined are responsible for 66.9% of all deaths in this age group. The injury death rates of the two age groups, adult and middle age, are nearly identical.

The overall male death rate among 45-64 year olds is 54.1% higher than the female rate, due largely to a 2.9 times higher death rate from heart disease (221.6/100,000 *versus* 76.0/100,000 for females). The male injury death rate (57.5/100,000) is 2.8 times that of females (20.6/100,000). This male predominance is evident in each injury subcategory, for example, the male firearm death rate (17.9/100,000) being 4.7 times higher than the corresponding female rate (3.8/100,000).

Overall, mortality rates in the 45-64 year old age group appear to have remained stable during the five year time period studied. However, there have been changes among the specific causes of mortality. With the exception of a one year fluctuation, heart disease mortality has experienced a 4.7% decrease which has been offset by a fluctuating 53.8% increase in chronic obstructive pulmonary disease (COPD) mortality.

Diabetes-Related Mortality: The risk of diabetes-related death is 12.3 times greater among 45-64 year olds, compared to the 25-44 year old group. Diabetes contributes to 9.6% of all internal cause deaths in the middle age group. Females experience a mortality rate 14 times higher than their younger counterparts, thus diminishing the rate differential between the sexes to a 60.3% greater risk among males. With the exception of a slight fluctuation in the midpoint year, there has been an 11.7% increase in the diabetes-related mortality rate over the five year period studied.

Cancer Incidence and Mortality by Site: In the middle age group, breast cancer now affects one out of every 385 women on an annual basis, 4.6 times the rate observed in the younger age group. In addition, the incidence rate for breast cancer has increased 18.2% between 1993 and 1997 among middle age women. Colon cancer incidence increases by a factor of 11.1, and lung cancer incidence increases by a factor of 18.7 above the rate in the younger age group, while the cervical cancer rate is just 34.1% higher. Prostate cancer enters as a major medical concern in this age group by affecting more than one out of every 609 men annually, and it appears to have increased 50.2% over the past five years in this age group.

Cancer is the leading cause of death in this age group; it is responsible for 41.7% of all deaths. The cancer mortality rate has increased by a factor of 9.9 over the younger age group. Cancer is the leading cause for female mortality (239.3/100,000) with a rate 3.1 times that of heart disease (76.0/100,000), the second leading cause of death.

Colon cancer incidence and mortality, and lung cancer mortality is approximately 30% higher among males than females in this age group (29.9%, 39.1%, and 30.7%, respectively). Though breast cancer mortality has increased by a factor of 6.1, colon cancer mortality has increased by a factor of 15.0, and the lung cancer mortality rate has increased 22.9 times above the rate observed in the younger age category.

Though experiencing a slight increase in the most recent year, the overall cancer mortality has decreased 5.0% since 1993. This decline seems to have been linked closely to a 30.8% decrease in breast cancer mortality, and an 11.4% decrease in lung cancer mortality; both of which have experienced some variation from a continual decline.

In the middle age group, the lung cancer mortality:incidence ratio is now 78.6%, while the corresponding ratio for colon cancer is 41.4%, cervical cancer is 35.2%, breast cancer is 18.5%, and prostate cancer is 4.6%.

Health Care Utilization

Inpatient Hospitalization. Rates of hospitalization are higher for all three diagnosis categories for 45-64 year olds, relative to 25-44 year olds. The injury hospitalization rate of the 45-64 age group is 31.3% higher than the rate of 25-44 year olds; the ACS rate is 2.6 times higher; and, the marker condition rate is 3.4 times higher. The male marker condition rate is 86.3% higher than the female rate. The injury admission rate is 23.1% higher for males compared to females, while females have just a slightly higher ACS admission rate. With the exception of a one year fluctuation, the overall hospital admission rate for those in the middle age group has increased 5.0% between 1993 and 1997. Also experiencing a one year fluctuation, was the 14.1% increase in ACS admissions. Conversely, there was a 14.8% decrease in marker condition admissions.

K. Senior (Age 65 to 74 years)

Health Status

General Mortality: The overall death rate of 65-74 year olds is 4.4 times that of 45-64 year olds. Heart disease and COPD mortality are 5.0 and 7.5 times greater, respectively. Overall, male mortality in this age group is 65.3% higher than female mortality. Compared to the 45-64 year olds, gender differences are greater for cancer (especially lung cancer) and COPD among 65-74 year olds. There is some convergence of heart disease death rates of males and females with age, but the male rate remains 2.1 times the female rate within the 65-74 age-group. Cerebrovascular disease becomes an important cause of death in this age group, especially among males. The cerebrovascular disease mortality rate surpasses colon, and prostate cancer; and is 3.1 times higher than the unintentional injury mortality rate. Unintentional injury-related mortality doubled (2.0 times) between the two age groups. This result is most likely due to the relatively large number of fall-related deaths, especially among males. In addition, the rate of female motor vehicle-related deaths was 2.7 times higher than the younger age group, thus resulting in no gender difference in motor vehicle mortality. As in the younger age groups, intentional injury deaths in this age group are almost always male events. Similar to the adolescent age group, firearms cause seven out of ten (71.1%) of these deaths; eight out of ten (80.2%) among senior males.

There appear to be no obvious trends in mortality rates between 1993 and 1997 in the senior age category.

Diabetes-Related Mortality: Diabetes-related mortality in this age group is 5.6 times higher than the 45-64 year old age group. The gender differential has decreased to a 49.3% higher risk among males in the senior group.

Cancer Incidence and Mortality by Site: When comparing cancer incidence rates between the 45-64 year old and the 65-74 year old groups, the colon, lung, and prostate cancer incidence rates exhibit substantially larger increases than breast or cervical cancer incidence rates. Colon cancer incidence rates increased by a factor of 4.7; lung cancer incidence rates increased by a factor of 3.6; and prostate cancer incidence rates increased by a factor

of 5.6; while breast cancer incidence rates increased by 70.7%. The incidence rate for invasive cervical cancer decreased slightly.

Cancer remains the leading cause of death in this age group for both sexes. Overall, the risk of cancer death is 3.9 times higher than the younger age group, and is 52.4% higher among males than females. While the risk of breast cancer death increases 2.7 times compared to the previous age group, lung and colon cancer death rates illustrate 4.0 and 4.7-fold increases, respectively. Lung cancer remains the most predominant cause of cancer death. Both lung cancer incidence and mortality rates for males are approximately double the corresponding female rates (80.0% and 93.5% higher, respectively), probably based on historical smoking habits. Incidence and mortality risk from colon cancer also remains strongly linked to gender, with men experiencing slightly elevated rates.

In the senior age group, the lung cancer mortality:incidence ratio was 87.3%, while the corresponding ratio for colon cancer was 41.4%, breast cancer was 28.8%, and prostate cancer was 11.2%. Deaths from cervical cancer occurred too infrequently to permit an accurate rate calculation. There appeared to be a 17.3% decrease in breast cancer mortality, specifically between 1993 and 1995, at which point the rate stabilized.

Health Care Utilization

Inpatient Hospitalization: Overall, hospitalization rates have increased 2.5 times between the 45-64 and 65-74 year old age groups. Hospitalizations related to ACS admissions have increased by more than a factor of 3.6 times above the younger age-group. Relative to younger age groups, there is a convergence in male and female hospitalization rates for marker conditions, with males exhibiting higher rates for ACS and marker conditions. Until a dramatic decline in the most recent year, there had been a 4.9% increase in injury admissions among seniors.

L. Elderly (Age 75 years and older)

Health Status

General Mortality: The overall mortality rate for males, age 75 years and older, increased by a factor of 3.0 over that for 65-74 year olds; while the female death rate increased by a factor of 3.9. However, the male death rates in this age group remain substantially higher than the corresponding female rates, where one in every ten elderly men die annually. The elevated mortality rate among males is consistent for all causes analyzed, with the exception of cerebrovascular disease, which is 22.0% higher for females than males, and was 6.6 times above the mortality rate observed in the younger age group. Heart disease is by far the leading cause of death to New Hampshire's oldest residents, accounting for 36.2% of all deaths to those age 75 and over, and representing an increase 4.1 times above the younger age group rate. The injury death rate in this age group is 2.9 times higher than that of 65-74 year olds, due to a five-fold higher death rate from falls, and a motor vehicle fatality rate 75.5% higher than that of 65-74 year olds. Deaths from violence increased slightly compared to the younger age group and occurred almost exclusively in males. The elderly experience the highest mortality rates of all age groups for all causes listed including motor vehicle accident deaths, which are 55.9% and 26.2% respectively above the high profile 15-17 year old and 18-24 year old mortality rates.

There was considerable convergence in male and female death rates from ages 65-74 to ages 75 and over. Among those 75 and over, the gender difference declines to 27.5%. The differential in the injury death rate decreases to 2.0:1 in the 75 and over group (229.6/100,000 *versus* 116.1/100,000).

Overall, mortality among the elderly experienced a 12.7% increase between 1993 and 1997. This result may be due to an increase of similar proportion in cerebrovascular disease, and a 32.6% increase in COPD mortality. Injury mortality increased 69.3%, dictated by a 74.9% increase in deaths from falls, and an 85.8% increase overall in deaths from unintentional injuries.

Diabetes-Related Mortality: Diabetes-related risk of death in this age group is 2.6 times higher than that of the 65-74 year old group. Diabetes-related death rates increased about the same for men and women over the younger age group, with death rates remaining 31.8% higher for men. There appears to have been a 23.6% increase in diabetes-related mortality over the five year time period studied.

Cancer Incidence and Mortality by Site: The incidence of colon cancer among New Hampshire residents 75 years and over is 78.4% higher than that of 65-74 year olds, while the mortality rate is 2.2 times higher. There is little difference between the senior and elderly groups in other cancer incidence rates. In fact, breast and lung cancer experience minor decreases in incidence. Breast cancer mortality increased by 40.7%, and prostate cancer mortality increased by a factor of 4.1 between the two oldest age groups. The rate of colon cancer incidence is 11.8% higher in males compared to females in this same age category. Males have lung cancer incidence and mortality rates that are 2.4 and 2.5 times higher, respectively, than females in this age category.

Cancer mortality is a major leading cause of death in this age group, second to heart disease, and it continues to illustrate a gender-related gradient. Overall, cancer mortality experienced an 11.2% increase over the past five years, led by a 9.3% increase in lung cancer mortality; prostate cancer mortality increased 16.4%, while its incidence appears to have decreased 27.1%; and, breast cancer mortality decreased 5.4%, though there were fluctuations in these trends.

Among the elderly, the lung cancer mortality:incidence ratio is now nearly 113.1%, while the corresponding ratio for colon cancer is 51.2%, and breast and prostate cancer are both 42.6%. A ratio of greater than 100% for lung cancer may be explained by the increasing mortality rate trend, decrease in incidence between the two older age groups, and the assumption that the deaths observed in this age group are to individuals diagnosed years earlier. Deaths from cervical cancer occur too infrequently to permit an accurate rate calculation.

Health Care Utilization

Inpatient Hospitalization: While the overall hospitalization rate increased by 54.3% between the two older age groups, each of the three hospitalization rates in this analysis more than doubled between ages 65-74 and 75 and over (2.1 times for ACS, 2.4 times for Marker, and 2.2 times for Injury admissions). The increase in marker condition and injury hospitalizations was greater for females than for males. This results in the 75 and over group being the only age group with either injury or marker condition hospitalization rates higher for females than males. ACS hospitalizations account for 21.5% of all hospitalizations in this age-group and are weighted towards males by 30.1%.

Discussion

Trend analysis reveals an overall 15.1% increase in the hospitalization rate for this age group between 1993 and 1997. Injury admissions increased 9.4%, ACS admissions increased 16.0%, and marker conditions increased 4.9%, though there are slight fluctuations in the latter two trends.

CONCLUSIONS

The 1993-1997 Primary Care Access Data report provides an analysis of socioeconomic status, infant health, mortality, cancer incidence, hospitalization, and birth rates for the State of New Hampshire, as a whole, and by community in the form of Hospital Service Areas. The report presents general public health measures as they apply to specific age groups across the State and within each HSA. The high level of data specificity in the report precludes a detailed discussion for each health indicator (96 pages of tables for eight age groups in 24 HSAs).

It is tempting to calculate a summary number to permit a global comparison of an HSA to the state average, or compare the overall health of two or more HSAs. However, it is important to note that global comparisons must be constructed and interpreted with care. Even though rates are standardized for populations, they should only be combined to create summary values based on a weighted sum. Otherwise, the relative size of various populations in the geographical area could have an impact on combinations of summary measures.

This discussion of the Primary Care Access Data has provided just a brief overview of the potential applications of the multiple databases utilized in this analysis. The report has focused on public health measures as they apply to specific age groups and as gender and time influence them. There are numerous ways that this data can be analyzed and compared. For example, the same measure can be studied across age groups to determine the population most at risk and most in need of services. The various component parts of the overall mortality rate can be analyzed. One can also study the interrelation between two or more measures as they vary by age, gender, or over time.

Now the challenge is presented to state and local policy makers and health service providers to further evaluate the data, determine areas of need, and establish the necessary programs to address problem areas. The Department's Bureau of Health Statistics and Data Management is available to answer questions that may arise regarding the analysis and interpretation of the data.